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Nigel Mansell's World Championship speeds past the competition



The night of a thousand pokes...

...how to beat over 478 games!

ACTION

Is your covertape missing? If so, ask your newsagent where it is!

ALSO ON DISK!

Want a disk version of the covertape? (6128 Plus owners take note) See the tape pages for ordering details.

Line up

Serious

8 Bigger & Better

Phil Craven begins a new series on add-ons. Get the most out of your machine, without spending loads of money.

24 Technical Forum

Richard Fairhurst answers sackloads of your technical problems, including a whole bundle of Multiface problems.

32 Public Image

Tim Blackbond sorts through the latest PD releases. If it's any good, you can be sure he'll tell you!

38 Type-ins

Jerry Glenwright checks out more of your handywork, and carries on with the BASIC tutorial.

Games

12 Poking fun

Phil Howard provides us with probably the largest number of multiface POKEs this side of, well, anywhere really! You need never despair again.

22 Balrog

Leaving all those smelly orcs behind for the day, The Balrog takes his monthly pilgrimage to Bath for the chance to swap tales of distant lands.



Postman Pat, a cat and a hat on page 48.



Main feature

46

Nigel Mansell's World Championship

Have you got what it takes to be the best? If so, then this is the game for you. It's one of the best we've seen.

31 Sherwood Forest?

Win a weekend in Nottingham for a family of four, visit the castle, the Tales of Robin Hood, Sherwood Forest and meet the Sheriff (if he's in town).



Tread in Robin's footsteps! Turn to page 31.

43 Power up

Yes! It's your chance to find out just what it is that makes the AA team tick. Plus! Take in all this issue's games at a single glance. Marvellous!

44 Kids Pack 2

It's finally here. More horrific violence coming your way... No sorry, wrong game. This one's cute 'n' cartoony!

45 The Popeye Collection

Time to crack open the spinach! It's all three Popeye games in one compact box.



Act like Arnie! Terminator 2 is on page 56.

48 Postman Pat Hit Collection

He's back. He's mean. He's got three games to his name, and Alternative have just released them on a compilation!

50 Classic Arcadia

There were only meant to be three, but Alternative have gone wild and given us six remastered classics!

51 Cheat Mode

Phil Howard jumps on a few pages to regale us with yet more cheats. This month, he shows you how to beat all those Quattro compilations and a smattering of Dizzy games too.

55 Air Attack

Put your head in the clouds and test your flying skills at 50,000 feet! You'll find a lifejacket under your seat and a sickbag to your right. Thank you!

55 Action Replay

There's only two entries in this month's Action Replay. We've got Terminator 2 and RBI2, and they've both got a whole page to themselves.

Regulars

4 The Tape Pages

You'll definitely need those Instructions this month. LARA certainly takes a fair old bit of explaining.

7 Amscene

News from the Amstrad front. Some serious bargains in the way of hardware, software, and slightly-squidgy-ware!

19 Reaction

More of your views, questions and wondrous warblings.

28 Subs

Save time, effort, money, shoe leather, frustration, space, the ozone, "filename.ext", water, the whale and the dolphin... with a subscription!

30 Back Issues

So you missed the eightieth issue of AA, did you? Well, wipe those tears away, turn to this page and cheer up!

42 Small Ads

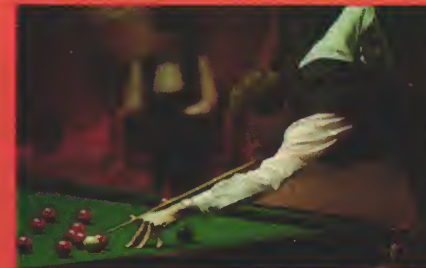
Are you missing a vital piece of hardware? Got something to sell? Want to swap some software? Got something to tell? Reach 35,000 readers in one go. It's as easy as one, two, three!

58 Next Month

Let us wet your appetite! Isn't it nice to know that the next issue of AA is going to be just as good as this one? Read the last page and smile!

ACTION PACK

A slight change of pace this month, as we settle down to the more relaxed, intellectual feel of a game of snooker and a very serious machine code utility. Why don't you just go and get your slippers?



Steve Davis Snooker

You've shot the bad guys, saved the planet, won the race and flown the helicopter. Now it's time to play a nice relaxing game of snooker. Failing that, hit 'em as hard as you can!



LARA

Bored with BASIC? Not much good at COBOL? It could be time for machine code, and time to check out LARA! Even if you hate coding, take a look anyway. Not only is it free, it's also amazingly good. Even if you don't know what's going on, you can still sit and gaze in awe. Alternatively, you could actually use it!



Type-Ins

Some more of the hottest reader programs to ever reach AA Towers, and you don't even have to type them in! For the inherently lazy among you, we've put them on the tape. There's a height predictor (incredibly strange, but remarkably true!) a flags utility, and loads more for you to look at and learn from.



No POKEs!

For a while this month we thought we'd have enough room for the POKEs on the covertape - that's why we wrote all about them on the tape inlay. Unfortunately, Steve Davis Snooker and LARA were both so big that there was no tape space left for our poor forlorn little POKEs. Aaahh! Don't worry, they'll be back next month. In the meantime, sit back in and enjoy this issue of AA.

Just turn the page for all the details

ACTION PACK

Complete Game CDS Software

Here at AA Towers, we've had enough of guns for a while. It's time to be nice to animals, bad guys, and aliens. We want to play something a little more passive, something which calls for a quiet kind of skill, for a careful aim and gentle endurance. Something, in fact, like Steve Davis Snooker.

Snooker doesn't excite everybody, but we think we'll make lots of converts out of you lot with the help of this game. But before you go and play it, we're going to have to quickly show you how it's done.

Use the keyboard keys Q, A, O, P and ENTER (or a joystick) for moving your target around the table, and press fire. Then use left and right to set the power of the shot, and press fire again. Next, move the arrow around the white ball at the bottom of the screen to select spin. After that,



Spin the ball by using a combination of keys, and go for the red.

SNOOKER DOS AND DON'TS

You don't want to offend any snooker players by not adhering to all those special little points that they care so much about. Not only would you seem like an outsider, but it's not polite.

- Unlike real snooker, you are allowed to eat and drink whilst playing Steve Davis Snooker.
- No spitting.



Oooh, you're so close. Just nudge it and you could have your ball!

Steve Davis Snooker

It's time to put away those guns, space helmets and other worldly toys. Instead, settle down at your monitor with a nice cup of orangina and enjoy a game of snooker.



And you're off! Take your time and look at all the angles.

press fire, and watch all the balls whizz around!

When you pocket a red (stop, thief!), you can select a colour by pressing the corresponding number key on the keyboard. The numbers are easy – They start at two, and run in order of points (yellow, green, brown, blue, pink, and black). Oh yeah, at the start of the game, you have to position the cue ball somewhere in the 'D' (the semicircle at one end of the table) by using normal directions and fire/enter.

If you are so abysmal at aiming a white ball that you foul, you will be asked 'Play Again?' This is simply if you want the player who committed the foul to play the next shot or not. It's not at all complicated!

As for the more advanced rules of snooker, you could go out and find a book or something,

Snooker – is it a game of carefully-taken angles and razor-sharp wits, or is it just two blokes hitting little balls with big sticks?

Well, Steve Davis thinks it's the former and Mrs Gladys Frunge from Kidderminster said she would stand up, in public, in support of the latter view.



but you probably won't need it. If you don't manage to pick up the general idea of this game then you're obviously a babe in arms and shouldn't be touching anything electrical. It's kinda surprising that we should have to go through the rules, but there may have been some little bit you weren't clear on, so it's better to sort everything out!

CONTROLS

Joystick or the keys Q, A, O, P and ENTER



And when you've perfected the moves, why not start another game?

Type-ins

For all those of you who are too worried about their fingernails to tap in long lists of numbers, here are the pick of the recent crop of fruity AA Type0ins.

Flags

Ross Riley

Wow! It's a flag! And another! There's Germany! America! Fab! Groovesome etc. Sit back and watch this nice little display of the major flags of the world.

Okay, so you're probably wondering what use this program could possibly have. Well, have you ever considered the fact that there are some people out there who get loads of enjoyment out of looking at flags? Well, there are. So spare them a thought!

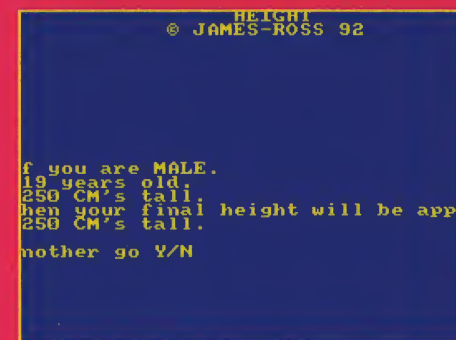


Look at that! Isn't it lovely? A real work of art, that is!

Height

James Ross

Have you ever noticed just how easy it is to insult short people? (Watch it, you're on very dodgy ground. Ed) Some people on the AA team are a little under-tall themselves. (I'm warning you. Ed) Here's a nice program with which you can tell stumpy people that they aren't going to get any nearer the clouds. Just enter your height in centimetres, or millimetres if it's easier, your age, and this program tells you what height you'll eventually reach.



Did you know that most males grow up to be taller than their mothers?

Number Scoffer

Dean Jackson

It's time to blip round a screen scoffing numbers, and avoiding the nasties! What fun! It's also very, shall we say, uncomplicated. Use the joystick. (Is that all there is to say? Ed) Erm, yes. It's easy and it's fun. Basically. (There must be more than that? Let me have a go... I see what you mean. It certainly is good fun, and it's ever so easy to pick up. But what you didn't mention is the fact that it's a bit on the addictive side. And that's quite an important point. Ed)



I'm a little number, short and stout, I haven't done any harm. Don't eat me!

Swap

Paul Turner

Have you ever played one of those puzzle games where you have to slide all the bits around? (I love those, they're my fave. Is this game like that? Can I have a go? Ed) Yes, this game's just like one of those and it's fab. The point of the game is to finish with an exact mirror image of the starting position of the grid. Simply move the bits using the cursor keys, and press copy when you want to swap a piece. Actually, it's a similar concept to the puzzley bits in Terminator 2. Okay, you can have a go now, Ed.



Gosh, it even tells you what to do. How awfully considerate!

Run this month's fabulous type-ins by typing RUN" and pressing enter or return.

How to load your covertape

Just pop the tape into your machine, making sure it's rewound to the start of Side 1, and then press CTRL + ENTER (or type RUN"), then press any key and the tape will start loading.

Within a few moments you get a menu screen. Choose the program you want using the Spacebar, then hit the Return key.

● Note that none of the programs need be loaded directly from the main menu. They can all be run from BASIC. The menu lists them, but you must quit back to BASIC to run them. (Use the RUN"(filename)" command.)

● If you have a disk drive either built into your machine or plugged in, you will first have to type ltape to switch the computer to tape loading. You get the l character by pressing SHIFT+@. Then just proceed as normal.

Duff tape?

We go to great lengths to make sure that our covertapes work properly. However, if you still have difficulty, try this:

● Loading at several different volume levels (if you're using an external tape recorder) ● Cleaning the tape heads. This can be done with any commercially available cleaning kit ● Adjusting the cassette recorder's head alignment. The alignment screw is located just to the left of the tape head, and is usually accessible through a small hole. Turn it a fraction at a time with a jeweller's screwdriver. When the crispest sound is heard, the alignment is spot on. ● Tapping the cassette gently against a table edge – the spools may be sticking or jammed.

If you still can't get the tape to load then send the tape, along with a brief description of the problem and a sae to:

**AA90 Covertape Returns,
Ablex Audio Video Ltd,
Harcourt, Halesford 14,
Telford, Shropshire
TF7 4QD**

Want a disk version?

The covertape contains its own tape-disk copying program. To transfer the programs to tape, simply follow the instructions on the tape.

● 464 owners with external 3-inch drives will have no problems, but 6128 owners will need a cassette player with a REM socket. Stopping and starting the tape manually is difficult.

● 6128 Plus owners who've had their machines modified to load from tape can transfer the programs to disk, but must rewind to the start of the tape again before the transfer starts.

You can also order a disk version of the covertape from our duplicators, Ablex. Snip off the coupon on the corner of this page and send it with a cheque/PO for £2.00 to:

**AA90 Disk Offer, Ablex
Audio Video, Harcourt,
Halesford 14, Telford,
Shropshire
TF7 4QD**

**Disk 90
Token**

If somebody walked up to you in the street, and whispered in your ear, "Ere, squire, fancy a top-quality machine code utility for only £5?" you'd probably be quite tempted. But buy it, and you'd have wasted your money, because this month's covertape contains just such a utility and it's completely free.

We couldn't put the instructions for LARA on the tape, because they're 45K long. There also written in German. This is a pity, because it can be tricky to use. However, this short tutorial should get you acquainted with what is possibly the best Z80 monitor available for the CPC.

LARA positions itself in extra memory if you have a 128K computer, so as not to corrupt the main program. You can load LARA, exit (press E followed by ENTER), load the program you want to have a look at, and then re-enter LARA (with SHIFT and function key 9). 64K users are restricted to the memory below &4000, which is okay for programs of less than 16K.

LARA commands mostly consist of a single letter, sometimes followed by one or more parameters. The first command you should know is H (or ?) which brings up a help-screen of all the available commands. When it pauses, press any key to progress to the second screen.

Let's have a look at a few of these commands. To dump memory to the screen, type D followed immediately by the address from where you want to start (for example, DBB00 to start from &BB00). After a while, the memory dump will stop: just press D and ENTER to carry on from where you left off. You can also disassemble code: instead of typing D, use L instead.

This is all well and good, but it's possible that

LARA

LARA is a toolbox utility for machine coders and it's a teensy bit on the clever side. No hang on, it's more than that - it is in fact remarkably clever!

you don't have anything in memory to look at right now. No problem: load in a file using the R command. If you want to load it to a specific address, add a comma followed by the address (in hex) at the end of this. CP/M .COM files can be read by using the CR command.

You can also use LARA to look at ROMs. To do this, type K followed by the ROM number (for example, K07 will select the disk ROM), and then disassemble or dump as usual - remember that ROMs sit between &C000 and &FFFF. KFF returns to RAM.

To alter the contents of memory, use the S command followed by an address (S4000 alters &4000 onwards). The address will be shown, followed by its present contents, and a cursor for you to type in a new value - or simply press ENTER to move to the next one. ESC quits this mode. To make it easy to enter text into memory, the P command is available, which is followed by the relevant address and text (e.g. P170, Another great program with AA!).

Perhaps you need to search for some bytes. LARA's Q command comes in here: for example, to search between &4000 and &7FFF for the sequence &CD,&18,&BB, type Q4000,&7FFF,&CD,&18,&BB. You can also look for

strings: if you wanted to search the whole of memory for the string "hazelnuts", you would type QT0000,FFFF,hazelnuts - Easy!

At some time you'll probably want to execute a machine code routine in memory: to do this, type G followed by the address. Two break-points (i.e. places where the computer pauses and reports what's going on) can be set, the address of which should be added to the G command with a preceding comma (for example, G3000,3012 would execute code from &3000, and stop when &3012 is reached).

If you're not exactly sure what effect the routine will have on memory, 128K owners can use the commands YG and YP: YP puts the contents of memory into your extra memory (as a backup), and YG gets it back again. 64K owners, obviously, can't use this facility. You can move small areas of memory to a safe place somewhere else using the M command (M2800,29FF,8000 copies the bytes between &2800 and &29FF to &8000).

We could go on for hours, but now that you know the basics, you can just as easily find out by experimentation. (Besides, there's no space left.) The program is great for debugging code and examining other people's: 128K owners should even be able to use it in conjunction with the Multiface's "jump" function to hack into games. Now, no program is safe (evil cackle)...

LARA by Jürgen Heber

```
-?
B(base)
CR(file),<adr>
CM(file),<start>,<len>
C(drive)
D(start),<end>
E
Fstart,end,byte
G(start),<brk1>,<brk2>
H or ?
Hint1,int2
H.byte
H:dez
I
K(confbyte)
L(start),<end>
```

```
SCREENBASE
READ COMFILE
WRITE COMFILE
CAT
DUMP MEMORY
END LARA
FILL
GO CODE
HELP
COMPUTE
CHANGE TO DEZ
CHANGE TO HEX
INIT SCREEN
MEMORY CONFIGURATION
DISASSEMBLE
```

The question mark at the command line gives you a list of all the commands available.

And what a truly huge amount of commands there are. This is just the first section of the list.

Coming Soon!

Don't forget that next month AA will undergo a radical change. Not, we hasten to add, in the content of the magazine, but the covertape will be one of the best we've ever given you. Amstrad Action, in conjunction with Tasman Software, brings you the truly excellent and renowned word processing package Tasword 464.

As usual, the tape will also contain a superior complete game. To fit all this on to the tape, we've had to raise the cover price slightly - the new AA will cost £2.95. But you are getting a full word processor (that will

work on disk machines as well) for a mere 45p!

All this, plus the usual blend of news, reviews, serious software, programming, and AA fun! Please turn to page 21 for an explanation from Amstrad Action's publisher.



Amscene

Amstrad news, views and goodies!

This month we've found loads of bargains for you and a fair bit of news. If you've got any info that you think should be passed on to other Amstrad owners, then write to Amscene, Amstrad Action, Beauford Court, 30 Monmouth Street, Bath, Avon BA1 2BW.

Fly Fishing...

We don't quite know whether anyone's noticed this before, or whether it was some kind of naff joke (and we'd know all about them) on the part of the author, but if you look at last month's review of *Vigilante*, you can't but help notice that the author of the game is one Mr J R Hartley.

Cheap ROMs

Too cheap to buy a full ROM box? Dartsma PD is knocking out Arnor's AD1 boxes (only one socket folks) with Maxam or maybe Protext stuffed in. They cost around £10, but stocks are limited (he's go about twenty left). As usual, you can find Dartsma on 081 317 1170.

WAVE Update

Long standing hardware suppliers WAVE have announced some new products soon coming to the CPC. Amongst these will be a range of leads to connect your old CPC monitors to completely different computers - solving a lot of reader's queries! They can supply leads to connect both old monitors (CTM 640/644) and new monitors (CM14) to Amigas (£14.99), STs (£15.99), MegaDrives (£12.99), and Spectrum +2s and +3s (£12.99). Unfortunately, the old monitors don't have speakers, so you'll need an extra pair, or headphones.

On top of this, they're reproducing the MP3, which allows you to use your old monitor as a colour TV (if you've got a colour monitor) for £34.99, plus £5.88 handling fee.

You can contact WAVE on 0229 87000.

HackIt's Back!

Just when you thought it was safe to turn your CPC back on, Siren Software release their new HackIt black box (well it's white, actually). The new model is said to be even better as it's stuffed with an assembler as well as all the usual stuff. We'll have more for you at a later date.

CampurSoft Goes Ape!

Campursoft have got wads of new stuff coming out, including a scanner, a genlock (limited version), a memory expansion, and a stunning hard disk drive (possibly with an autoboot feature) with software written by our very own ChaRleyTroniC!

The Aussie's Need Help!

No, that's not cultural prejudice, it's a fact. They've got no CPC support down there! A certain Peter Campbell is a tad concerned at this, and has supplied two contacts for them.

The first is Q3Soft, based in Tasmania on 002 535318, and the second is the PCW Australia User Group who support CPCs as well, on 027 571105. Give them a call today!

Dartsma Moves House

Dartsma PD has now changed address, and can now be found residing at 5c Robert Street, Plumstead, London, SE18 7NE.



That's Tanya on the left and John Barnes is the one with the silly grin. No, hang on...

A Final Photocall

I know our "Get-A-Photo-Of-Yourself-With-A-Star-And-A-Copy-Of-Amstrad-Action" competition finished a while ago now, but we just had to print this one of Tanya Winston and her brother, Ben, next to Liverpool's John Barnes. And was she thrilled? "Not really, I actually support Arsenal."

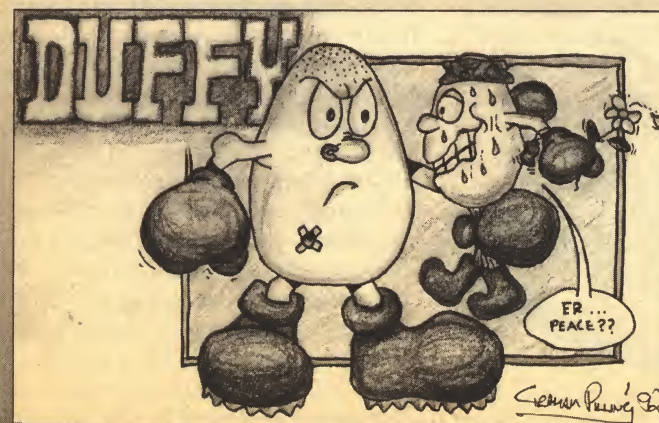
Creative Dealings

Creative are offering the 464 Plus with a mono monitor for just £115. They've also got a few modulators for the knockdown price of £19. Hurry while stocks last! Call 0353 663030 now!

Computer Shopping Spectacular

If you're anywhere in the Telford area on March the sixth and seventh, then pop into the Telford Exhibition Centre. Why? Well, it's hosting a massive computer fair and we've heard that there are going to be lots of bargains, competitions and a local radio roadshow. Cool!

The Mammoth AA Compo Results Bit



The scenario: Wading into the office through thousands of Dizzy pictures to find the AA editor curled up in the foetal position under a desk. "I've done it! I've finished judging the Dizzy competition!" Oh dear. Seems the strain was too much for Rod. That's the real reason he left, you see. He simply couldn't handle all the hideous egg gags.

Whilst being strapped up and carried off, he gave the name of the competition winner in a demented scream. "Graham Pilling of Huddersfield for his Duffy!" Now... Because we're all sadists here at AA, we're going to torment a few of those who didn't win, but came damned close. They're Aidan McKenna, Malcolm Cleland and Tom Ash, but they don't get a single egg gimmick!

Rod, however, totally neglected to judge the Alternative compo that night, so we did it for him. The winner here is David Southgate of Staffordshire, so he can expect a bag of games pretty soon!

BIGGER AND BETTER

THE WONDERFUL WORLD OF UPGRADES

Of all the great add-ons for the 464 Plus the most popular are the 64K RAM pack and the disk drive. They're also the most expensive... or are they? In the first part of a new series, PHIL CRAVEN tells you how to cut the cost of add-ons.

A RAM pack costs between forty and fifty pounds, and a disk drive about £160. There's no doubting their usefulness but there's no doubting their cost either.

So what if I were to tell you that you could have the extra 64K for only a tenner? You like that? And how about knocking, say, fifty to sixty quid off the cost of a drive? You like that too? Aaw, shucks. Sad to say, it can't be done. I'm sorry to be the one to tell you but, although we can get you the drive

for a tweak over £100, the best we can manage the extra 64K for is £10.72, including VAT and postage, which is a massive 72p up on what I led you to think. You still want it? Oh, all right. If you've got money to burn, read on.

Until you actually buy one, you wouldn't know that the existing 64K RAM pack was designed to perch neatly on the back of the older 464 and, although it works fine on the 464 Plus, it doesn't exactly perch neatly anywhere. In fact it

fits rather like a square peg in a round hole, and I don't just mean that they have different connectors. The RAM pack is too tall for the 464 Plus. The answer to this is to either raise the computer on a board or use an extension cable and let the RAM pack sort of flop all over the desk. The best solution is not to use the RAM pack at all but to put the extra 64K inside the computer where it couldn't be neater. Using a soldering iron, a solder sucker and this article you can upgrade your 464 Plus to 128K, the same as the 6128 Plus, and, because the parts cost a mere

£10.72, you can save yourself at least £30 in the process!

It isn't widely known, but the main circuit boards of the 464 Plus and the 6128 Plus are identical, having identical circuit tracks and identical holes for the various components. The difference between the two models is that the 6128 Plus has the disk interface and extra 64K components fitted where the 464 Plus has holes and the 464 Plus has tape components fitted where the 6128 Plus has holes. So it doesn't take an Einstein to wonder if putting the extra 64k components into the correct holes in the 464 Plus' circuit board would produce a 128K computer – and it does! The same applies with the disk interface components (464 Plus) and the tape interface components (6128 Plus). But first – the extra 64K.

Assembling the upgrade kit is simple. There are ten components to buy and fit (see the parts list) but, before you rush to get them, take a little time to examine the task ahead and make sure that you are confident enough to perform it or that you know a man who is.

With all power turned off, remove all peripherals including the cartridge and tape from the computer and disconnect it from the monitor. Turn the computer upside down and remove all the screws from the underside. While you've got the underside up, notice the three catches – one in the centre of the front and one on each side. Turn the keyboard the right way up again and, with your fingers, undo the three catches. The front one pulls towards you and the side ones pull outwards. That done, press EJECT on the tape player to raise its lid and lift the top of the casing away from the keyboard. It will fold back but it is still connected to the circuit board by several wires so don't yank at it.

Whilst you're doing the job, the circuit board will be completely removed from the computer but, at this point, leave it where it is and leave

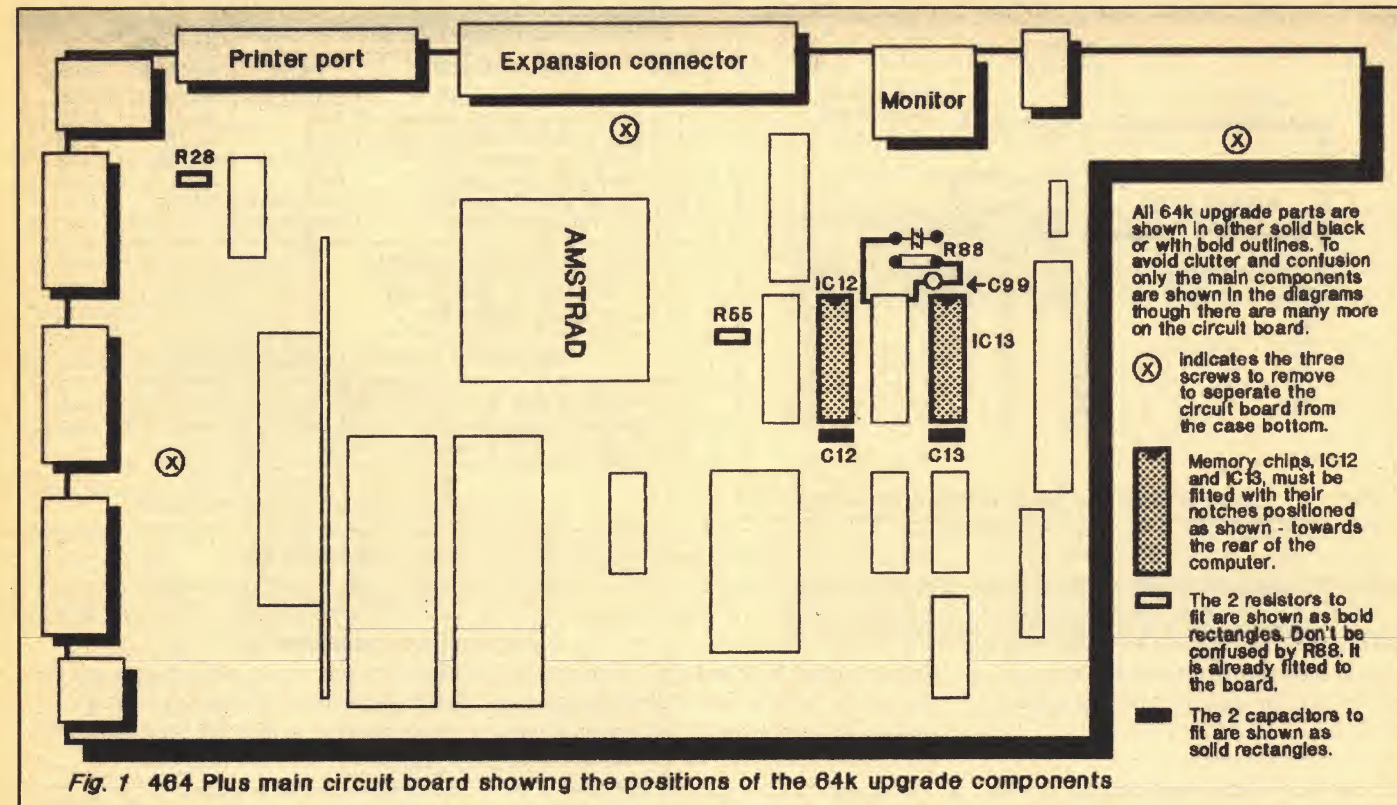


Fig. 1 464 Plus main circuit board showing the positions of the 64k upgrade components

the top connected to it. Don't touch anything on the circuit board but compare it with Fig.1 and Fig.2 and take a little time to consider how the 64K upgrade will be done. Fig.1 shows where the components are fitted to the circuit board, Fig.2 shows the detail of fitting the electrolytic capacitor and wire link and the parts list indicates each component that you will have to fit. Use the diagrams to identify the location where each component fits. You will notice that the holes for the components have been filled with solder during the manufacturing process and it needs to be removed before fitting the components. For that, you'll need a solder sucker. Tandy sell a cheap bulb-type one that looks like a bit like a small vinegar bottle and Maplin sell a better one called a Desolder Tool – its order code is FR26D and it costs £3.95.

If it looks easy enough to you then go ahead and buy the parts. If not, then close up the computer in the reverse order to opening it and consider the service offered by Avatar.

DOING IT

Open the computer as described earlier. Now, before going any further, hold your cold water tap for a second to discharge any static electricity from your body. That done that, touch the circuit board and chips as little as possible. Zapping a chip with the body's static electricity is rare these days but it's always better to err on the side of caution.

Remove the case top from the circuit board by disconnecting the wires that join them. Notice that the two pairs of wires have colour-coded sockets – the blue socket goes on to the blue plug and the black one on to the black plug. Those plugs and sockets clip together and a small screwdriver is needed to prise their vertical tongues slightly open. Remove the tape deck connector by pulling it upwards. Remove the

keyboard by pulling the two film connectors from their sockets and take out the three screws that hold the circuit board to the case bottom (see Fig.1). The circuit board can now be lifted out but handle it by its edges. The component's pins on the underside of the board are sharp and will scratch a polished surface. You have been warned, you've no excuse.

Suck the solder from the holes that are needed for the ten components. You'll probably find it easier to suck from the underside of the board. Don't worry about the weight of the board bending the copper leaf springs. They will bend back again later. With the solder sucker poised very near a hole melt the solder inside the hole with your soldering iron, quickly move the sucker nozzle onto the hole and suck. Some of the holes will only be partly filled and sucking is more successful when a hole is full so, if at first you don't succeed, fill it up with solder and try again. It's easy when you get the hang of it. When all the holes have been cleared look closely at them, preferably with a magnifying glass, and get rid of any solder bits. Now you're almost finished!

There is no particular order in which the components should be fitted but, to help you get used to it, you might like to do resistors R28 and R55 first. The only fiddly bits are the wire link and the electrolytic capacitor, C99, which are best fitted before the IC sockets. Otherwise the sockets can get in the way.

FITTING EACH COMPONENT

Resistors R28 and R55 To make buying the parts easier, I have specified them all from a single source, Maplin. But Maplin don't stock the precise resistors that Amstrad used in the 6128 Plus machines (1/6th watt, 4.1mm long). To avoid any possibility of overheating the resistors, the ones specified are 6.8mm long and are bigger than those already in the circuit board.

This is not a problem. Bend the wires to fit the holes and solder into place.

They are coded by coloured bands as shown in the parts list followed by a brown and a red band. Be sure to put the correct resistor into the correct place. It doesn't matter which way round they are fitted. Push the wires of one resistor through its holes so that the resistor's body is quite close to the circuit board and bend the wires outwards on the underside of the board. That prevents the resistor from slipping out when you turn the board over to solder it into place. Turn the board over and solder the wires into place. Trim off the excess wire. Now do the same with the other resistor.

Capacitors C12 and C13 These are brown discs. Like the resistors, they can be fitted any way round – either wire in either hole.

Electrolytic capacitor C99 There are no holes for this one and when you've fitted it, you'll think it looks a bit odd but, surprisingly, this is exactly how it is done in the 6128 Plus.

C99 is a small metal can with two wires at one end and a dark stripe down one side, next to one of the wires. The stripe indicates that that wire is negative. It is important to connect this capacitor the correct way round. Fig.2 shows it as a circle with a positive sign (+) at one side and a negative sign (-) at the other. The negative sign indicates the dark stripe side. Melt a small blob of solder onto pin 18 of the existing memory chip, IC11, and solder C99's positive wire (not the dark stripe side) to that pin. Solder the negative wire to the side of the existing resistor, R88, as shown in Fig.2. You'll need to bend the wires to fit and the result will leave the capacitor sticking up but it can be bent over a bit before you close up the computer.

When soldering to an IC pin, as in this case,



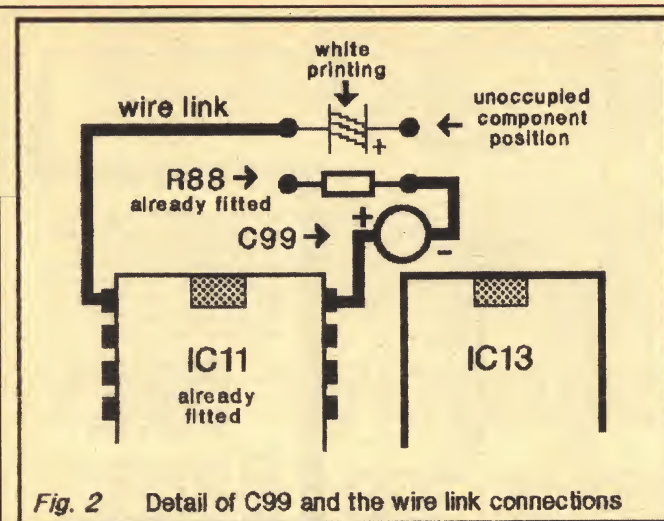


Fig. 2 Detail of C99 and the wire link connections

PARTS LIST			
QTY	DESCRIPTION	PART	MAPLINS PART No. cost each
2	41464 or equivalent	IC12, IC13	UH93B 4.45
1	10K (brown black orange)	R28	M10K 0.03
1	33R (orange orange black)	R55	M33R 0.03
2	0.1uF 12v ceramic	C12, C13	YR75S 0.12
1	47uF 16v electrolytic	C99	YY37S 0.12
2	2 x 18 pin IC sockets	IC12, IC13	HQ76H 0.10
1	short piece of wire	wire link	- -
MAPLIN ELECTRONICS, P.O. Box 3, Rayleigh. Essex, S86 2BR.		total parts 9.52 handling 1.20 TOTAL £10.72	
Telephone orders: 0702 554161			
Maplins make one £1.20 handling charge so, if you also need the solder sucker (desolder tool), add it to your order but don't add any extra handling charge.			

you have about six seconds with the iron on the pin before the heat starts to become dangerous for the chip. Six seconds is a very long time in soldering terms but, even so, it is best to do it as stated by melting a blob of solder onto the pin first. That way the capacitor's wire will solder to the IC's pin in a fraction of a second.

Wire link Again, this is exactly how it is done in the 6128 Plus. Any short piece of wire will do. Strip about 1/8" of insulation from each end of the wire and tin the exposed metal conductors. Tinning is covering the conductor with solder and it is done by holding the soldering iron onto the conductor and allowing solder to melt over it.

Melt a blob of solder onto pin 1 of the existing memory chip, IC11, and solder one end of the wire onto it. Solder the other end of the wire to the hole as shown in Fig. 2. It isn't necessary to clear that hole of solder as melting it will allow the wire to push through.

Sockets for IC12 and IC13 These aren't really necessary but many people are afraid to solder the pins of chips. The sockets avoid that and they are cheap enough.

Look at the existing IC10 and IC11 and notice that they each have a notch at the end nearest to the back of the computer. The notches are to indicate which end is which. Most sockets have notches too. If yours do, then place them into the

circuit board with their notches towards the back – exactly like ICs 10 and 11. Do the sockets one at a time and solder every pin into place.

Memory chips, IC12 and IC13 These simply plug into the sockets. They are both the same so each can go in either socket but they must have their notches towards the back of the computer:

Most new chips are supplied with 'splayed' pins which must be bent inwards. It's quick and easy to hold a chip at each end with one row of pins on a hard surface and push down so that the whole row of pins bends inwards. You want each row to be more or less at right angles to the chip's body. Push each chip into one of the sockets making sure that all the pins go in and none become bent.

CLOSING UP

The upgrade is now finished and the extra memory can be used but, before closing up the computer, check that you have C99 the right way round and that the memory chips have their notches at the back. Now you can close it up, remembering to screw the circuit board to the case bottom and reconnect the keyboard's two film connectors, the tape connector and the blue and black wire pairs. The copper leaf springs should rest on the underside of the keyboard. If they have been bent down and can't touch the keyboard, bend them up again so that they do.

USING THE EXTRA 64K

With the computer put back together and connected to the monitor you can turn it on et voila! Nothing! Now! Zilch! There'll be nothing different on your screen and nothing to indicate that the extra memory is there at all. It's a common mistake to think that some software is needed for the extra 64K to be used. The DKTronics RAM pack is supplied with software which people imagine is necessary, but it isn't. What it does is test the extra memory and provide some RSX's so that it can be used from within Basic programs. But the main use of the extra 64K is with commercial programs that are written to use it and those programs will find it straight away. You don't have to do anything. You don't have to tell the computer that it's there and you don't have to tell a program that it's there. Programs that want it will find it. CPM+ is one such program.

Using the extra memory in your own BASIC and machine code programs needs some knowledge of the CPC's memory organisation facilities which, unfortunately, is beyond the scope of this article.

FINALLY

DIY projects that tell you how to alter the insides of your computer are unusual and we don't want to leave you in the lurch so we have taken the unusual step of providing technical help for this project on a special phoneline – the number is 0274 602180. It must be said. If these instructions are followed accurately, and the parts are good, the upgrade will work. But we cannot control what a person does inside his/her computer and neither Amstrad Action nor Future Publishing, nor the author of this article can accept any responsibility or liability for any damage to parts or equipment that might occur by doing this project. I can say that many others have already done the project as sold in kit form by Avatar.

Hopefully, you've read this far before closing your computer so wet your appetite a bit by spotting another group of unused holes on the circuit board, including a set behind the tape deck that is obviously for a connector. A disk drive connector? You'll just have to wait and see, won't you? Seeya next month.

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Multiface. BUY NOW! IT'S BYE NOW...

When the **MULTIFACE** was launched in 1986, it was an outright winner. No one has ever come up with such a powerful, useful add-on. Labeled the **ESSENTIAL CPC COMPANION**, this **MULTIpurpose interFACE** proved to be an absolute Godsend for the Amstrad CPC users. Remember the first disk drive on the CPC 464? Suddenly the loading took seconds rather than minutes from tapes. Except that there was not much to load - very little had originally been released on disks and there was no facility to transfer programs from tapes to disks.

THE SAVIOUR

This is one area where the **MULTIFACE** saved everything - literally. The black magic box could stop anything any time and **SAVE** it to disk or tape. When the 6128 came with a built-in drive, it was left again to the **MULTIFACE** to do all the transferring - and to perform other miracles...

So, in case you just came from Mars, what does a **MULTIFACE** do? First, it sits at the back of your CPC, its magic button always ready. Press it, and the **MULTIFACE** takes control!

ACTION!

Once in action, it freezes everything and it displays its own menu. Being fully menu-driven and error-trapped, you'll probably never need the full manual that comes with the **MULTIFACE**. Most operations are also entirely **AUTOMATIC**, so to **SAVE** a game once you stopped it, you just **name** it, insert **disk/tape**, and press a key. You can then **return** and **continue** the program. If you get beaten later on, just reload from where you saved last and play just from there again! No need to go back to the start all the time. Or even better, the **Multiface** allows you to **POKE**

INFINITE LIVES

listed in this magazine and you'll **never** loose. The **MULTIFACE** comes with a built-in **TOOLKIT** that lets you inspect/alter/dump the CPC RAM. It also has its own 8K RAM and 8K ROM. Many top programs were written with the aid of the **TOOLKIT** and the extra 8K RAM. And do you like the **screen shots** in this magazine? They are all produced using the **MULTIFACE**!

When we announced earlier that we were to pull out of the 8-bit market, the surge of interest in the **MULTIFACE** was such, that we had to make many more. And not just the **MULTIFACE** - we also have the one and only disassembler,

THE INSIDER

that lets you **see** and **alter** what happens any time anywhere inside a **RUNNING** CPC program. This is a unique de-bugging/development aid. It comes on a **disk** and loads inside a **MULTIFACE**. Press the magic button and the **INSIDER** will disassemble, find text/code, dump the CPC RAM to printer, etc. Get it at **HALF-PRICE** for **£7.95**! As this goes to press, we still have plenty of stock of both the **MULTIFACE** and **INSIDER**. However we can't go on manufacturing for ever. The **MULTIFACE** is terrific value, in fact more for the **customer** than for the **manufacturer**... So

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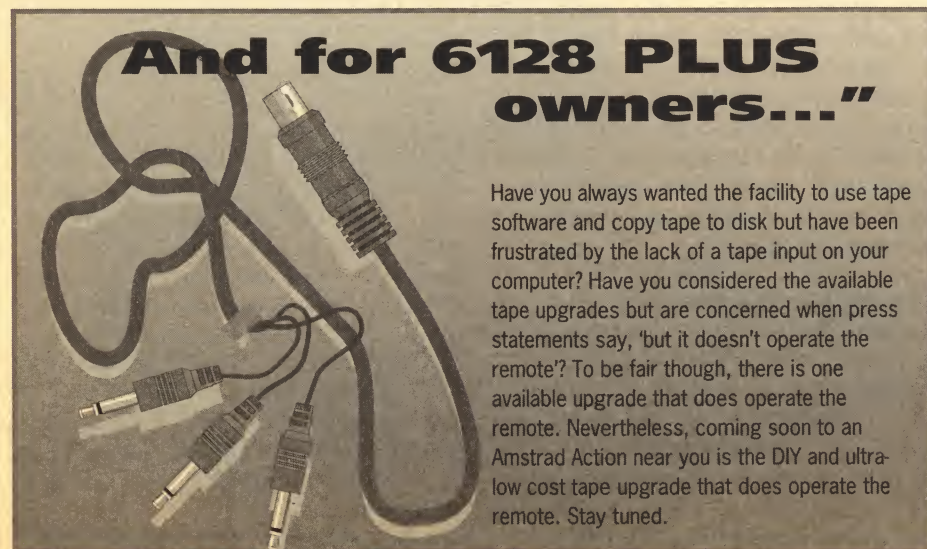
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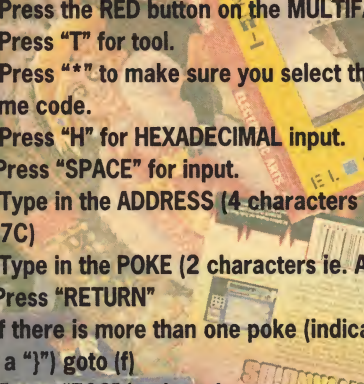
Have you always wanted the facility to use tape software and copy tape to disk but have been frustrated by the lack of a tape input on your computer? Have you considered the available tape upgrades but are concerned when press statements say, 'but it doesn't operate the remote'? To be fair though, there is one available upgrade that does operate the remote. Nevertheless, coming soon to an Amstrad Action near you is the DIY and ultra-low cost tape upgrade that does operate the remote. Stay tuned.

POKING FUN

AA presents the longest list of Multiface POKes ever. Phil Howard is the man responsible for giving you everlasting life.

The Multiface way

The (t)s and (d)s before the address indicate whether the POKE was written for a tape or disk game (they might work on both, it's worth a try). Just in case you don't already how to put in these **BLACK BOX POKES**, here are the steps to success.

- 
- a) Load the game as normal.
 - b) Press the RED button on the MULTIFACE.
 - c) Press "T" for tool.
 - d) Press "*" to make sure you select the game code.
 - e) Press "H" for HEXADECIMAL input.
 - f) Press "SPACE" for input.
 - g) Type in the ADDRESS (4 characters ie. 3A7C)
 - h) Type in the POKE (2 characters ie. A7)
 - i) Press "RETURN"
 - j) If there is more than one poke (indicated by a "}") goto f)
 - k) Press "ESC" back to the menu.
 - l) Press "R" return to the game.

1942 (t) 2974 C3 Manual rapid fire

1942 (t) 2982 00 Auto rapid fire

1942 (t) 24C0 C9) Inf lives

1942 (t) 24D0 C0)

1943 (t) 7A21 A7 Inf energy

3D Starfighter (t) 7F3A 00 Invulnerability

3D Starfighter (t) 7F15 00)

720 Degrees (t) 8027 00 Inf lives

720 Degrees (t) 9528 00 Inf credits

720 Degrees (t) 8088 00 Inf tickets

ATF 2C5A FF 255 Lives

ATF (d) BE4C FE Lots of fuel

ATF (d) BE61 FF Lots of cannon

ATF (d) BE62 FF Asraam missiles

ATF (d) BE63 FF Maverick missiles

ATV Simulator (t) 4C1E 00 Stops the clock

Academy 8CF3 00 Inf missiles

Academy 8D17 00 Inf ammo

Academy 8DD6 00 Inf delay bombs

Academy 8CC8 00 Inf flares

Academy A049 00) Inf fuel

Academy (8BEC 00)

Academy 83C2 00 Inf shield

Addams Family demo (t) 12D0 00 Inf lives

Advanced Pinball (t) 0415 00 Inf balls

After the War (t) 804E 00 Inf lives (part 1)

After the War (t) 8049 00 Inf lives (part 2)

Afterburner (t) 1D58 00 Inf missiles

Afterburner (t) 20A7 3A Inf lives

Agent X 2 (t) 5CDA A7 Inf energy

Airborne Ranger (t) 945A 5C Inf aid - press DE

Airborne Ranger (d) 9539 3B Inf aid - press DE

Airwolf 2 (-) 822B No lives

Airwolf (t) 786F 00 Inf lives

Alien 8 (t) 41BE 00 Inf lives

Alien 8	(t) 2EFE 00 Inf time
Altered Beast	(t) 09B0 00 Inf credits
Altered Beast	(t) 09B9 00 Inf credits
Anarchy	(t) 48E1 C9 Inf lives
Android 2	(t) 2822 00 Inf shields
Antiraid	(t) 5749 00 Gives boots
Antiraid	(t) 6F4F 00 Gives guns
Antiraid	(t) 5BBE B7 Invulnerability
Antiraid	(t) 6F58 B7 Inf energy
Antiraid	(t) 6F3A 00 Radiation (1)
Antiraid	(t) 6F3B 00 Radiation (2)
Arcade Flight Sim	(t) 9D12 00 Inf lives (1)
Arcade Flight Sim	(t) 9CDE 00 Inf lives (2)
Arctic Fox	(t) A300 00 Inf shields
Arkanoid 2	(t) 3318 A7 Inf lives 1st load
Arkanoid 2	(t) 419C A7 Inf lives 2nd load
Arkanoid 2	(t) 3318 A7 Inf lives 3rd load
Arkanoid 2	(t) 4207A7 Inf lives 4th load
Arkanoid	(t) 20FE 00 Inf lives
Arkanoid	(t) 20E3 00 Inf lives
Arkanoid 2 (coin op)	(t) 3318 A7 Inf lives (load 1)
Arkanoid 2 (coin op)	(t) 419C A7 Inf lives (load 2)
Arkanoid 2 (coin op)	(t) 3318 A7 Inf lives (load 3)
Arkanoid 2 (coin op)	(t) 4207 A7 Inf lives (load 4)
Army Moves	(d) 0752 00 Inf lives (1)
Army Moves	(d) 0480 00 Inf lives (2)
Artic Fox	8049 00 Infinite shields
Artura	(t) 218B 00 nf energy
Artura	(d) 218B 00 Inf energy
Astro Marine Corps	(d) 4234 FF Grenades (part 2)
Astro Marine Corps	(d) 4FDD FF Grenades (part 1)
Atom Ant	(t) 18DC 00 Inf lives
Atom Ant	(t) 1918 00
Atom Ant	(t) 0B07 No lives
Atom Ant	(t) 1490 No time
Atom Ant	(t) 1413 No bombs
Atom Ant	(t) 18B2 C9 No collision
Auf Wiedersehen Monty	ADB3 00 Inf lives
BMX Freestyle	(t) 1456 00 Qualify
BMX Freestyle	(t) 1480 00 jon
BMX Freestyle	(t) 1481 00 each
BMX Freestyle	(t) 1482 00 event
BMX Freestyle	(t) 148F 00
Back to the Future 2	6954 00 Inf time
Back to the Future 2	7A4C 00 Inf lives
Bad Cat (Go Crazy)	(d) 221D 0A Lots of time
Bad Cat (Go Crazy)	(d) 221E 09 in venue 1
Bad Cat (Go Crazy)	(d) 21FF FF Time in Interlude
Bad Cat (Go Crazy)	(d) 21FD 0A Lots of time
Bad Cat (Go Crazy)	(d) 21FE 09 in venue 2
Bad Cat (Go Crazy)	(d) 2223 0A Lots of time
Bad Cat (Go Crazy)	(d) 2224 09 in venue 3
Bad Cat (Go Crazy)	(d) 221A 0A Lots of time
Bad Cat (Go Crazy)	(d) 221B 09 in venue 4
Ball Crazy	(t) 1C6F A7 Inf lives
Ball Crazy	(t) 1C6F A7 Inf lives
Barbarian 2	(t) 3D12 D6 Mega power
Barbarian 2	(t) 3D13 10
Barbarian 2	(t) 3D96 3A
Barbarian 2	(t) 3E12 3A Inf energy
Barbarian 2	(t) 432F A7 Inf lives
Barbarian 2	(t) 432F A7 Inf lives
Bart Simpson	(d) 15AC FF Inf lives
Bart Simpson	(d) 3BDE 00 Position
Basil Mouse Detect	(t) 90D0 C9 Inf time
Basil Mouse Detect	(t) 8E46 C9 Inf energy

Batman the Movie 1D62 FF Removes grenades
Batman the Movie (t) EE06 C9 Inf energy
Batman the Movie (t) 4523 00 Inf lives
Batman the Movie (t) 76EE 00 Inf time
Batman 3D (t) 1C90 00 Inf lives
Batman the Movie (d) EE06 C9Inf energy
Batman the Movie (d) 6743 00Inf lives
Batman the Movie (d) 76EE 00Inf time
Battle of Britain (t) 4030 00 Inf fuel
Batty 432B FF 255 lives
Batty (t) 4515 00 Inf lives 1 play
Batty (t) E77F 00 Inf lives 2 play
Bedlam (Go Crazy) (d) F1BE 09 9 Lives
Beyond Ice Palace (t) OD38 A7Inf spirits
Beyond Ice Palace (t) 0ED3 C9)and
Beyond Ice Palace (t) CF32 0D)Invulnerability
Beyond Ice Palace (t) E77F 00)use all 5
Beyond Ice Palace (t) FF34 C9)pokes
Bigfoot (t) 1016 A7 Inf lives
Bigfoot (t) 0601 00 Lots of lives
Billy the Kid (t) 81C9 00 Inf ammo
Billy the Kid (t) 92CA 10 One shot
Bionic Commandos 0E6F BF Lots of lives
Black Tiger (d) 5612 A7Inf lives
Blackbeard 38DA A3 Inf lives
Blackbeard 4C3E 0D Inf bullets
Blade Warrior (t) 031B 00 Inf lives
Blade Warrior (t) 625C 18)Inf time
Blade Warrior (t) 77A1 C9)
Blasteroids 2155 00 Inf lives
Bloodwych (t) 0523 A7)Inf energy
Bloodwych (t) 9873 A7)Inf spell
Bobby Bearing (t) 8243 00 Disables baddies
Bombfusion (t) 493A 00 Slows Timer
Bombfusion 4A72 00 Inf lives
Bombfusion 4935 00 Inf time
Bombfusion (t) 4A71 00 Inf lives
Bombjack 0090 00 Loads of lives
Bombjack II 02EB 00 Loads of lives
Bombjack II 0649 00 Stops all enemies
Booty (t) 54F4 00 Inf lives
Boulderdash IV (t) 05E9 FF Extra lives
Boulderdash IV (t) 6C3C 00 Inf time
Boy Racer 83E4 AF Indestructable (p1)
Boy Racer 83CA AF Indestructable (p2)
Brainache 7312 00 Inf lives
Breakthru BE38 00 255 lives
Brian Bloodaxe (t) 684B C3 Inf lives
Brian Jacks s/star (t) 198D A7 Full strength part 1
Brian Jacks s/star (t) 1999 A7 Full strength part 2
Bronx Street Cop (t) 0579 32 Extra time
Bronx Street Cop (t) 4FFA A7 Inf bullets
Bubble Bobble (t) 6D26 A7 Inf lives part 1
Bubble Bobble (t) 6D87 A7
Bubble Bobble (d) 6D24 A7Inf lives part 1
Bubble Bobble (d) 6D85 A7
Bubble Bobble (d) 6C0F A7Inf lives part 2
Bubble Bobble (d) 6C70 A7
Bubble Dizzy (t) 6E72 00 Inf lives
Bubble Ghost (t) 8244 00 Inf bubbles
Bubbler A74E B7 Inf lives
Buggy Boy 1E7F C9 Inf time
Butcher Hill (t) 115D A7 Inf lives
Butcher Hill (t) 11FD A7)

(t) 1972 00 Inf lives
(d) 0B1A 00Inf lives

Cabal	(d) 1972 00	Can't die
Camelot Warrior	(-) 089E 00	Inf lives
Captain Planet	7CDE 00	Inf lives
Captain Dynamo	(t) 460F 50	80 lives
Captain Blood	(-) 43A3 00	Reset timer
Captain Blood	(-) 43A4 00	
Captain Blood	(-) 43A5 00	
Castle Master	(-) 7E7F 00	Inf energy
Castle Master	(-) 6B29 00	
Castle Master	(-) 7305 00	
Cauldron	(t) 9C83 00	Inf lives
Cauldron	(t) 8D57 A7	Inf lives
Cauldron	(t) 8D58 A7	
Cauldron	(t) 8D59 A7	
Cauldron 2	(t) 1C90 00	Inf lives
Cavemania	(t) 1FD6 00	Inf lives
Caves of Doom	(t) 2525 FF	255 lives
Chain Reaction	4A41 00	Stops timer
Chain Reaction	4B81 00	Inf lives
Championship Sprint	(t) 4646 04	Don't lose car
Championship Sprint	(t) 2346 84	Inf spanners
Chase HQ	(d) 2022 00	Inf time
Chase HQ	(d) 3820 00	Inf turbo
Chase HQ	(t) 2074 00	Inf time
Chase HQ	(t) 3872 00	Inf turbo
Chevy Chase	(t) 24E7 00	Inf time
Chicago '30s	(t) 43DD 00	Inf lives
Chimera	9172 F0	Inf water/food
Cholo	(t) 8316 A7	Invulnerability
Chronos	(t) 7388 FF	Inf lives
Chronos	(t) 81E0 00	Bonus on screen
Chronos	(t) 8C5E 00	No background
Chubby Gristle	(t) 1468 FF	Lives
Chuckie Egg	(t) 9B58 00	Inf lives
Chuckie Egg 2	(t) 67C2 FF	255 lives
Classic Aliens	(t) 388D A7	Inf lives
Classic Muncher	(t) 09E9 C9	Inf lives
Classic Arcadia	(t) 1295 00	Rapid fire
Cobra	4CCF 00	Gun shots
Cobra	4ECA 00	Inf lives
Cobra Force	417F 8F	Inf lives
Cobra Force	41CC B3	
Collapse	5F1D AA	Stops timer
Colosseum	68C4 00	Inf lives
Colony	(-) 2DE9 FF	Cash
Colussium	68C4 00	Inf lives
Combat School	042C 0A	Slows timer
Combat Lynx	(t) 5899	No of choppers
Combat Zone	(t) 05FE 00	Inf lives
Combat School	(t) 042C 0A	Slow timer
Commando	(t) 14C0 FF	255 lives
Commando	(t) 072A FF	255 bombs
Conquest	(-) 77D7 A7	Inf energy
Continental Circus	(t) 0FEC 00	RANK Only gets better
Continental Circus	(t) 0B86 00	More time
Continental Circus	(d) 2772 00	Inf continues
Cop Out	195B 00	Inf lives
Count Duckula	(t) 0F6E C9	No mummies
Count Duckula	(t) 101B C9	No rocks
Count Duckula	(t) 10C7 C9	No crow bros
Count Duckula	(t) 11DE C9	No bats
Crack Up	1233 A7	Inf lives
Crazy Cars	(t) 5195 3C	Stops timer
Critical Mass	(t) 308E 00	
Critical Mass	(t) 308F 00	Inf Crafts
Critical Mass	(t) 3090 00	
Crossfire	(t) 0D1F 00	Inf lives
Crossfire	(t) 0BE2 xx	No of lives
Curse of Sherwood	(t) 66AC 00	Inf lives
Curse of Sherwood	(t) 756F 00	Permanent map
Cybermold	(t) 0227 FF	255 lives
Cybermold	16AE FF	Inf lives

Cybernoid 2	2AD6 C9	Invulnerability
Daley Thompson	(t) 17DE 00	Inf lives
Dan Dare	(t) 7C58 C9	Inf lives
Dan Dare 2	(t) 7B91 A7	Inf lives
Dan Dare 3	(t) 06FA 00	Inf jet pack
Dan Dare 3	(t) 4BBD 00	Inf ammo
Dan Dare 3	(t) F744 00	Inf lives
Dan Dare 3	(t) E7AA 00	Inf energy
Dandy	(t) 570C 06)	9990 Energy
Dandy	(t) 570D 27)	
Dandy	(t) 5710 FF	255 keys
Dandy	(t) 570E FF	255 spells
Dark Fusion	(d) 0851 00	Inf lives
Dark Side	(t) 6F7B A7)	Inf fuel
Dark Side	(t) 6E0A A7)	and shield
Dark Side	(t) 6580 18)	
Dark Side	(t) 6581 1B)	
Dark Side	(t) 6E20 00)	
Dark Side	(t) 6E30 00	Inf time
Dead or Alive	(t) 528E 00	Inf lives
Dead or Alive	(t) 514C 00	Inf bags
Dead or Alive	t) 50D6 00	Inf ammo
Death Stalker	(t) 171C 00	No ghosts
Death Stalker	(t) 18BD 00	No demons
Defenders	OE (t) 8461 18)	Inf Lives
Defenders	OE (t) 8462 08)	
Deflektor	003C No	Select level
Deflektor	07CF 00	Inf lives
Deliverance	(t) 10FC A7	Inf lives
Desolator	0819 FF	255 lives
Destructo	(t) 5166 00	Inf time
Destructo	(t) 3DA4 00	Invulnerability
Devils Crown	(t) 9140 00	Inf oxygen
Devils Crown	(t) A103 00	Inf bullets
Devils Crown	917F 00	Inf oxygen
Dizzy	(t) 953A 00	Inf lives
Dizzy	(t) 8925	No speed (1-10)
Dizzy Yolk Folk	(t) 185F 00	Inf lives
Dizzy down the Rapid	(t) 22E0 FF	255 lives
Dominator	(t) 0736 00	Inf lives
Dominator	09A4 FF	255 lives
Doodlebug	99AE 00	Inf lives
Doors of Doom	85F6 A7	Inf energy
Double Dragon	(t) 393D 00	Inf lives
Double Dragon	(t) 384F 00	Inf time
Double Dragon	(d) 4CEB 00	Inf lives
Dragon Spirit	(t) 206B 00	Inf lives
Dragon Breed	3612 00	Inf credits
Dragon Breed	3A1E 00)	Invulnerability
Dragon Breed	3A1F 00)	
Dragon Breed	3A20 00)	
Dragoninja	(t) 13C0 00	Inf time
Dragoninja	(t) 1D54 00	Inf time
Dragons Lair	(t) 25B7 A7	Inf lives
Dragons Lair 2	t) 7D3D 00	Inf lives
Driller	(t) 6F7B A7)	Inf fuel
Driller	(t) 6E0A A7)	and shields
Driller	(t) 6580 18)	
Driller	(t) 6581 1B)	
Driller	(t) 6E20 00)	
Driller	(t) 6E3E 00)	Inf time
Driller	(t) 7A19 00)	
Druid	(t) 4566 00	Inf energy
Dun Darach	(t) 792A 18	Opens doors
Dynamite Dux	(t) 8B07 A7	Inf lives
Dynamite Dux	(t) 8D29 00	Inf ammo
Dynamite Dux	(d) 8B84 A7	Inf credits
Dynamite Dan	(t) 2DBE 07	7 Dynamite
Dynasty Wars	(d) 2B3B C9	Inf energy
Dynasty Wars	(t) 2974 C3	Manual rapid fire

E-Motion	(d) 28A7 00Inf lives
E-Motion	(d) 1321 00Inf energy
E-Motion	(d) 1329 00}
E-Motion	(d) 2E05 00Balls don't explode
E-Motion	(d) 389E 18Pods don't grow
Eagles Nest	(t) 1AE3 00 Inf Keys
Eldon	(t) 749F 00 Inf lives
Elite	(t) 4611 00 Inf missiles
Elite	(t) 7401 00 Inf fuel
Elven Warrior	18DF 00 Inf keys
Elven Warrior	1826 00 Inf arrows etc
Empire Strikes Back	(t) 0746 00 Inf shields
Enduro Racer	(t) A114 00 Inf time
Escape F1POTRM	(t) 421A 00 Inf credits
Escape F1POTRM	(t) 4B46 00 Inf bombs
Escape F1POTRM	(t) 6887 C9 Inf power
Exolon	(t) 2A25 00 Inf lives
Exolon	(t) 1159 00 Inf ammo
Exolon	(t) 1F7A 00 Inf grenades
Exolon	(t) 12FA No start zone
Exploding Wall	420D 00 Inf lives
Extreme	(d) 1B3F 00 Inf time
Extreme	(d) B061 00Inf energy
Extreme	(d) AB11 00Inf torch
F1 Tornado	(t) 977B 00 Invulnerability
Fairlight	(t) 7D2F 00 Inf life
Fairlight	75AB 18 Unlocks doors
Fairlight	6F88 00 Inf life
Fairlight 2	3865 18 Unlocks doors
Fairlight 2	3208 00 Inf life
Fairlight 2	3E73 00 Inf brooch (1)
Fairlight 2	3EB5 00 Inf carpet (2)
Fantasy World Dizzy	(t) A063 A7 Lives
Fast Food	570C 00 Inf lives
Fernandez Must Die	538C A7 Inf lives
Feud	(t) 0E57 C9 Inf time
Final Fight	(d) 1F31 No credits
Final Fight	(d) 1F36 No Player 1 lives
Final Fight	(d) 1F37 No Player 2 lives
Finders Keepers	(t) 20CE 00 Inf lives
Finders Keepers	(t) 20CE 00 Inf lives
Firetrap	6DCB FF 255 lives
Flimbos Quest	7724 00 Inf lives
Flimbos Quest	(d) 770F 00Inf lives
Fly Spy	(t) AB2C 18 Bombs can't kill
Flying Shark	(t) 4FA6 00 Inf smart bombs
Forgotten Worlds	00F3 00 Inf energy
Frankenstein Jnr	5DA7 A7 Inf bottle
Frankenstein Jnr	(t) 70C0 00 Remove ghosts
Front line	F41B A7 Inf troops
Fruit M/c Sim	(t) 733F 00 Inf credits
Fruity Frank	(t) 5A9B 00 Inf lives
Future Knight	06A2 80 128 lives
Future Knight	(t) 0799 A7 Inf lives
Future Bike Sim	(t) 0E7F A7 Inf lives
Game Over 2	(d) 8FEA 00 Inf lives pt 1
Game Over 2	(d) 9BC3 00Inf lives pt 2
Game Over	1F7C 00 Inf lives
Garfield	(t) 1EAC 00 Don't fall asleep
Gemini Wing	(t) 443B 00 Inf lives
Get Dexter	(t) 7ED1 00 Inf energy
Ghostbusters 2	(t) 6721 00 Inf lives pt 1
Ghostbusters 2	(t) 6A01 00 Inf proton beams
Ghostbusters 2	(t) 6A83 00 Inf pkr bombs
Ghostbusters 2	(t) 6AD9 00 Inf pkr shields
Ghostbusters 2	(t) 6D63 00Inf fireballs pt 2
Ghostbusters 2	(t) 70FC 00}
Ghostbusters 2	(t) 7195 00 Inf slime
Ghosthunter	(t) 61CA No start room
Ghosthunter	(t) 61CF C9 Inf energy
Goyle n' Ghosts	(d) 3182 A7 Inf lives

March 1993 **AMSTRAD ACTION**

Soldiers of Light
Soldiers of Light
Sonic Boom
Soul of a Robot
Soviet Fighter
Space Harrier 2
Space Harrier 2
Space Harrier 2
Space Rider
Space Trader
Space Trader
Space Trader
Space Trader
Space Trader
Space Trader
Space Trader
Space Trader
Spaced Out
Speedking
Speedzone
Spellbound Dizzy
Spike in Transylvania
Spikey Harold
Spindizzy
Spindrome
Spindrome
Spitfire
Spitting Image
Split Personalities
Split Personalities
Spooky Castle
Star Wars
Stardust
Steel Eagle
Stormbringer
Stormlord
Street Fighter
Street Fighter
Street Fighter
Strider
Strider
Strider
Strider 2
Strider 2
Strike Force Cobra
Stunt Car Racer
Stunt Car Racer
Subterranean Stryker
Super Robin Hood
Super Robin Hood
Super Hero
Super Hero
Super Scramble
Super Tank Sim
Super Tank Sim
SuperTrux
SuperTrux
SuperTrux
Supersam
Switchblade
Switchblade
Sword Slayer
Sword Slayer

(t) 57FA 00 Lives 1
(t) 5A49 00 Lives 2
(d) 8CC6 00Inf credits
(t) 2304 FF 255 lives
(d) 0CF1 00 Inf fuel
(t) 1003 00 Lives
(t) 0793 00 Inf lives
(d) 0476 00Inf lives
(t) 5FC4 00 Inf lives
(t) 74CD FF 255 shields
(t) 74CC FF 255 lasers
(t) 74CE FF 255 exterior
(t) 74CF FF 255 interior
(t) 74D0 FF 255 computer
(t) 4DFA No cash
(-) 659A 00)No time limit
(-) 659B 00)or landing tax
5886 00 Inf time
(t) 152A C9 Stops clock
(t) 2832 A7 Inf lives
(t) BC52 00 Inf lives
(t) 1691 00 Inf lives
(t) 9C33 A7 Inf lives
(t) A85E C9 Inf time
(t) 7C4A 00)Inf lives
(t) 7667 00)
(t) 1B2A 00 Inf spits
36F3 C1 Always win
(t) 2F23 A7 Inf lives
(t) 0FF6 C9 Stops fuse
(t) 090A 00 Inf lives
(t) 4515 00 Inf Shields
03E4 00 Inf lives
(t) 1B98 A7 Inf lives
(t) 16C7 No Starting position
(t) 6B7D C9 Invulnerability
(t) 839F 00 Inf credits
(t) 9197 00 Inf energy
(t) 944C 00 Time limit 9999
(t) 2BDE A7 Inf energy
2BE9 00 Inf lives
2AC2 00 Inf time
12E6 A7 Inf time
017E 00 Inf lives
6943 A7 Stops timer
(d) 2177 00Inf boost
(d) 98C3 C9Invulnerability
(t) 7D36 A7 Inf lives
(t) 6C97 C9 Invulnerability
(t) 6122 00 Faster Robin
(t) 3763 00)Inf lives
(t) 376A 00)
(d) A8B1 00Stops clock
(t) 992B 00 Inf lives
(t) 37F6 00 Improves firepower
(t) 1991 00)Stops clock
(t) 9961 00)
(t) 9A25 00)
(t) 94F5 00 Less crashes
(-) 9BE2 00 Inf lives
(t) 30AC 00 Inf Lives
(t) 252B 00 Inf Weapons
(t) 14A8 3C) Invulnerability
(t) 14B6 3C)

TLL
Target Renegade
Tau Ceti
Technician Ted
Techno Cop
Techno Cop
Techno Cop
Teenage Turtles
Teenage Turtles
Teenage Turtles
Teenage Turtles
Teenage Turtles
Tennis Cup
Terra Cognita
The Apprentice
The Apprentice
The Hit Squad
The Munsters
The Prize
The Prize
The Plot
The Spy Who Loved Me
The Spy Who Loved Me
Thing Bounces Back
Thrust
Thrust 2
Thunderbirds
Thunderbirds
Thunderbirds
Thunderbirds
Thundercats
Thunderjaws (demo)
Tiger Road
Time Scanner
Time Machine
Tir Na Nog
Tir Na Nog
Titan
Titan
Titanic
Titanic
Titanic
Titus the Fox
Titus the Fox
Titus the Fox
Tomcat
Toobin
Toobin
Top Cat
Trantor
Trantor
Trantor
Trantor
Trantor
Treasure Island Dizzy
Treasure Island Dizzy
Treasure Island Dizzy
Troll
Turbo Esprit
Turbo Outrun
Turbo Outrun
Turbo Tortoise
Turrican 2 (demo)
Turrican 2 (demo)
Turrican 2 (demo)
Turrican
Turrican
Twin Turbo V8

(t) 57FA 00 Lives 1
(t) 5A49 00 Lives 2
(d) 8CC6 00Inf credits
(t) 2304 FF 255 lives
(d) 0CF1 00 Inf fuel
(t) 1003 00 Lives
(t) 0793 00 Inf lives
(d) 0476 00Inf lives
(t) 5FC4 00 Inf lives
(t) 74CD FF 255 shields
(t) 74CC FF 255 lasers
(t) 74CE FF 255 exterior
(t) 74CF FF 255 interior
(t) 74D0 FF 255 computer
(t) 4DFA No cash
(-) 659A 00)No time limit
(-) 659B 00)or landing tax
5886 00 Inf time
(t) 152A C9 Stops clock
(t) 2832 A7 Inf lives
(t) BC52 00 Inf lives
(t) 1691 00 Inf lives
(t) 9C33 A7 Inf lives
(t) A85E C9 Inf time
(t) 7C4A 00)Inf lives
(t) 7667 00)
(t) 1B2A 00 Inf spits
36F3 C1 Always win
(t) 2F23 A7 Inf lives
(t) 0FF6 C9 Stops fuse
(t) 090A 00 Inf lives
(t) 4515 00 Inf Shields
03E4 00 Inf lives
(t) 1B98 A7 Inf lives
(t) 16C7 No Starting position
(t) 6B7D C9 Invulnerability
(t) 839F 00 Inf credits
(t) 9197 00 Inf energy
(t) 944C 00 Time limit 9999
(t) 2BDE A7 Inf energy
2BE9 00 Inf lives
2AC2 00 Inf time
12E6 A7 Inf time
017E 00 Inf lives
6943 A7 Stops timer
(d) 2177 00Inf boost
(d) 98C3 C9Invulnerability
(t) 7D36 A7 Inf lives
(t) 6C97 C9 Invulnerability
(t) 6122 00 Faster Robin
(t) 3763 00)Inf lives
(t) 376A 00)
(d) A8B1 00Stops clock
(t) 992B 00 Inf lives
(t) 37F6 00 Improves firepower
(t) 1991 00)Stops clock
(t) 9961 00)
(t) 9A25 00)
(t) 94F5 00 Less crashes
(-) 9BE2 00 Inf lives
(t) 30AC 00 Inf Lives
(t) 252B 00 Inf Weapons
(t) 14A8 3C) Invulnerability
(t) 14B6 3C)

Twin Turbo V8
Twin Turbo V8
Twin Worlds
Twin Worlds
Typhoon
Ultima Ratio
UN Squadron
UN Squadron
UN Squadron
Untouchables
Uridium
Uridium
Uridium
Uridium
Vampire
Victory Road
Victory Road
Vigilante
Vigilante
Vindicators
Vindicators
Vindicators
Vindicators
Vindicator Level 1
Vindicator Level 1
Vindicator Level 2
Vindicator Level 3
Vindicator Level 3
Vindicator Level 3
Vixen
Wanderer 3D
Wanderer 3D
Wanderer 3D
Wanderer 3D
Wanderer 3D
Warlock
WEC Le Mans
West Bank
West Bank
West Bank
Wizard Willy
Wizball
Wizball
Wonder Boy
Wonder Boy
Wrestlemania
Wriggler
Xcel
Xenon
Xenon
Xenon
Xybots
Xybots
Yabba Dabba Doo
Yie Ar Kung Fu
Yogi's Great Escape
ZTB
ZTB
Zarkon
Zarkon
Zorzo
Zub
Zynaps
Zynaps
Zynaps

(t) A550 00 Inf time
(t) 1BEE 99 lives
345E A7 Inf energy
3658 00 Higher jump
(t) B084 00 Inf lives
(t) 31D9 00 Inf lives
1CDB 00 Inf lives
(d) 1C1B 00Inf credits
(d) FE07 A6 Music off
0FD2 A7 Inf time
(t) 1FC2 00 Inf lives
(t) 0962 00)No homing
(t) 0963 00)missiles
(t) 0964 00)all 3 pokes
(t) 2D5B 34 Inf lives
(t) 385E FF 255 lives (p1)
(t) 386F FF 255 lives (p2)
5816 A7 Inf life
(d) 8C2B A7 Inf lives
(t) 07D3 F0 240 lives player 1
(t) 07BB F0 240 lives player 2
(t) 1667 C9 Inf fuel
(t) 158F 00 Inf stars
05B4 A7 Inf oxygen
0BD9 A7 Inf lives
10D1 A7 Inf lives
12F9 A7 Inf lives
060E 00 Inf time (part 1)
0615 00 Inf time (part 2)
3514 A7 Inf lives
(t) 154E C9 Inf energy
(t) 1578 00 Inf shields
(t) 4706 05)Shortens route
(t) 4718 05)through
(t) 4724 05)black holes
(t) 264F 00 Inf lives
1345 00 Inf time
(t) 8A58 FF)Inf lives
(t) 8CF4 A7
(t) 92DD A7
1C1C 00 Inf lives
(t) A92B C3)Inf lives
(t) A93A A7
52E2 00 Inf lives
(t) 52E5 00 Inf lives
(d) 2A64 00Inf credits
(t) 8018 00 256 lives
(t) 33A4 00 Inf lives
(t) 0827 C9 Inf lives
(t) 080B C9 Inf energy
03F0 FF 255 lives
(t) A8F3 C9 Inf credits
(t) 70F3 00 Inf credits
(t) 0AEO A7 Inf lives
883E 00 Inf energy
(t) 07CC A7 Inf lives
(t) A282 C9 No badstars
(t) AOC7 C9 Invulnerability
(t) 2B1F C9 No enemy craft
(t) 8869 18 Inf lives
(t) 4390 00 Inf lives
(t) 57BC FF 255 lives
(t) 4319 00 Droids harmless
(t) 6139 C9 Rapid fire
(t) 5F7E FF 255 lives
(t) 4A3F 00 No enemy craft

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Reaction



Welcome to Reaction! As well as your letters, we've also got an open letter from the publisher of Amstrad Action to you, the readers.

Don't try this at home, kids!

As a newcomer to the world of computers, and very ancient into the bargain, I find much of what I read in your magazine a complete mystery. However, I have made a discovery which I wonder if many of your readers know about.

When a tape fails to load properly and the screen goes either blank or comes up with the message "read error", it may be possible to cure the problem. I have encountered this on two occasions and each time I stopped the tape at the place where the fault occurred, removed it from the tape player, carefully pulled out a couple of feet of the tape, placed the tape between a couple of layers of smooth material (a couple of pillow cases are ideal), and then carefully ironed over the tape with a warm iron. After winding the tape back in and then rewinding in the computer tape player the tape then loaded perfectly! Am I an old genius, or what?

Mrs V Crossley
Polegate, Sussex

Erm, I'm not entirely sure how good an idea it is to pull out bits of your covertape and iron them. I mean, it is a good idea in itself as you're straightening out the tape. But, and I would stress this, please don't try this if you're one of our younger readers. Not only will you be unable to reach the ironing board, but irons are very dangerous things. Ask your mum or dad to iron your tape for you. Alternatively, for that real professional touch, take it to the launderette and

get it done there! Ed.

The awful truth

I have been playing *Tir Na Nog* for at least three years and I seem to be unable to complete the game. This is despite playing it in several different ways.

I am now worried that this is a game which is perhaps impossible to complete. Several clues seem to point towards this conclusion...

★ None of the Lords and Ladies seem to have completed this game, although it's been around for ages.

★ No one has answered my previous pleas for help in AA.

★ You gave the game away a year ago, so someone must have tried it.

Can you confirm the truth about this game? Can you force the writer to come clean? This is a last desperate plea, I must know if there is hope.

Dave Gahan
Tupsley, Hereford

There are two schools of thought as regards this little poser. Some people say that the reason nobody's ever finished the game is simply because it's so dull. The other school, of which I'm a member, tend to think that the rest of the world is conspiring against you - including the programmer! No, seriously, I'm sure there's nothing wrong with the program itself otherwise we would have had other letters about it and, erm, we haven't.

By the way, are you that Dave Gahan out of Depeche Mode? Is that the reason you haven't

released many records recently - because you've been too preoccupied with *Tir Na Nog*? Ed.

Naughty, naughty, very naughty!

In issue 88 of AA, I glanced at a program by Simon Clark called *Blocks*. Very recently I had borrowed some copies of ACU from someone, and I noticed a striking resemblance to a ten-liner called *Tower of Brahma* by Chris Wooton. Simon Clark has taken *Tower of Brahma*, added bits and bobs to it, called it *Blocks*, and put it under his own name. I have supplied a photocopy of the original program, which was in the April 1990 issue of ACU. Whether this deserves £20 is beyond me, but I don't think it does. Maybe Simon thought we wouldn't notice, eh? So don't do it again, mate.

Nicholas Campbell
Newtonmards, Northern Ireland

I suppose it is a bit on the naughty side, but it's not the naughtiest thing I've ever seen. After all, it's not as if it's exactly the same program, Simon did make some changes. Maybe those bits aren't worth £20, but all we can do is try and be more vigilant in the future.

By the way, did you know that Brahma is a Brazilian beer with a really smart advertising campaign? Y'see, if you buy a bottle of Brahma then ten pence, or something, goes towards saving the rainforest. The best bit is the posters, there's all these bright parrots sitting in the forest and underneath it says something like 'Drink Brahma and be popular with the birds.' It's very smart. Ed.

program which was published in the now-defunct *Attack* magazine, any cleaning up being done in the *Dartscan* program. Illustrations are scanned using *Dartscan*.

M F Gurney
Billericay, Essex

I must admit that Mr Gurney's letter and enclosed example looked very good indeed. We've reproduced his pictures, so you can see the quality. So, if you're thinking of getting a word processor, this is certainly one to think about. Alternatively, you could wait until next month and get Tasword free. Ed



Life after Protext

Why is it always Protext which is put forward as the last thing in word processing for the CPC? I have to admit that I was an avid user of the program, that is until *Brunword*.

I have been using BW now for about two and a half years for page layout including illustrations.

Logos are designed using the *Easydraw*

Soccer simulation shock

A few months ago I came into a little money, only a little. So I saw your rave reviews on the football compilation Soccer Stars and I ordered it from MJC Supplies. I received the game and, as you said, it was great. Gazza 2 was good fun, as was Kick Off 2, and Emlyn Hughes was excellent. The problem came when I loaded Microprose Soccer. It loaded fine, and I saw in the instructions to go for Microprose International Challenge for a quick start, this was not in my options menu. Your review said that you used the 11-a-side facility and it said nowhere in the instructions that you couldn't get 11-a-side on the Amstrad. I was quite put off as the six-a-side American facility isn't that good. Please could you give me an address where I could find out whether I could get this facility or a new disk.

Jon Joasbury
Ivybridge, Devon

Well, either our reviewer was lying, or you can get 11-a-side and you just haven't found it yet. You could either contact MJC supplies and see if they forgot to include part of the instructions. You could just find the address of the original publisher on the game box itself, and try contacting them. Ed.

Console conundrum

I am the proud owner of the Amstrad games console, the Amstrad GX4000. I have not yet bought any games, but I have been out looking for some. After a day of no success, I decided to go to the shop where I bought the console itself. They told me that I wouldn't find any in the shops, but that if I became a member of the Amstrad User Group then that had games for my particular console. Unfortunately, they had no idea where I should write off to, so I thought, "Who better than Amstrad Action?"

Could you please send me information about this club if it does exist, and where I can find games if it doesn't? I would very much appreciate it as I'm getting tired of Burnin' Rubber.

Giancarlo Cassano
London

Okay, first the bad news - the Amstrad User Group disbanded quite a while ago. But, and here's the good news, you can probably get console games from a mail order company called Trade-In Post. They advertise in AA on a fairly regular basis, look in a few of your back issues. Ed.

Some questions

I am writing to congratulate you on producing a good magazine which is a good read for gamers and serious users alike. I have several questions to ask you, they are...

1. What is the value of the components in a GX4000 console? Why did it have little commercial success?
2. What games do you have lined up as covertape games in the near future?

3. How much of the cost of an £11.99 computer game goes to the software house and how much to the retailer?
4. Why don't you include slightly more adverts (ie - you charge less for adverts) and then you could produce a proper magazine with more than your measly 58 pages.

Peter Barnes
Stroud, Gloucester

1. The value of the components is probably around £30, but you've got to remember that they're buying in bulk. The reason it had no commercial success was because it was aimed at CPC users - people who preferred to have the CPC+ which was effectively a console and a CPC in one box.
2. Oooh, let's see... we've got Wizard's Lair, Syntax and European Superleague amongst others. And they're all pretty smart.
3. It depends on the retailer. Big retailers like Smiths and Menzies earn more from their games than Fred Bloggs, independent retailer.
4. A lot of people don't like to admit this, but adverts make money. Our ads aren't actually that expensive (as ads go). If we charge less for ads then we need more ads to get the same amount of money as we were getting before. (If you see what I mean.) We'd have to sell loads more ads before we could afford an increase in pages. Ed.

All together now

Firstly I would like to point out that if anyone was thinking of following up the article about the huge amount of CPC software available in France, don't bother. When I went, the full price shelves in Auchen were all but empty and, although the range of budget games was large, there were no outstanding titles. This was just before Christmas, when you'd expect the shelves to be quite full. I would also like to point out that in the latest issue of Check It Out, a young people's buying guide, not only was the great AA given a very poor 32%, but CPC Attack got 40%.

Also, snide comments were made about the amount of life left in the CPC. I urge all faithful AA readers to boycott this pathetic mag that's obviously written by Gameboy-playing idiots. Together we stand united.

Fraser Hewitt

Help us to help you

Now, we know that it's essential that readers are able to contact the world's greatest CPC mag, but we seem to be having a few problems. Firstly, there's the problem of unmarked mail. We receive far too many letters addressed simply to Amstrad Action. It would be much nicer if you would mark on the letters which particular feature you are writing to, as it makes our mail sorting system much easier, and means your letter is much more likely to reach its proper destination.

Secondly, it must be stressed that we cannot replace games that you have bought in the shops. Any damaged goods you have bought should be exchanged at the shop you

Sandwich, Kent

United we stand, divided we fall! Workers of the world unite, we have nothing to lose but our minds, and they aren't our own anyway! Remember kids, the state is your enemy! Storm the barricades! Lock yourself in your bedroom! Refuse to eat anything but crisps and... Oi, Adam! What are you doing here? Get out, shoo! Ed.

I know a man who does!

I have grave news - the rare oasis in London, Virgin Gamestore, has stopped stocking Amstrad software. This means that the only way Amstrad owners in the south can get hold of software is by ordering through mail order or taking a daytrip to France.

I have found a shop that does sell Amstrad software and isn't thinking about quitting the Amstrad market, but unfortunately for me it's way up in Coventry. It's called K-Soft, it's in Cathedral Lanes and has over four shelves of CPC stuff, but no cartridges.

Chris Edwards
Surbiton, Surrey

There is actually a very good mail order company called EDOS (which stands for Electronic Distribution of Software). They have masters of absolutely tonnes of games, you tell them what game you want and they duplicate it for you and send it off. It's all perfectly above board and legal, and the software houses know all about it. So don't worry! For a free catalogue simply send a large sae to EDOS, Computer Visions, 30a School Road, Tilehurst, Reading, Berkshire RG3 5AN. Ed.

A face in the crowd

Has anyone watching Gamemaster noticed a certain Scottish chap commenting on the challenges called Frank O'Connor? The challenges he commented on were for the SNES. Is this the same chappie that used to work for AA and left just before Adam came along? Traitor!

Matthew Long
Calcot, Berkshire

You're spot on, Matthew. That cheery chappie was none other than the same Frank O'Connor who once graced these pages with his wicked wit

bought them from. If, however, you have problems dealing with software companies, then please write and tell us, but mark your letters to Reaction, and don't include your tape! We really cannot do anything with them. Of course, if you have problems with your covertape, then send the tapes to Ablex and they'll send you a new one back. Their address is on the covertape pages. Thank you, thank you and thank you. (Again!)

The address to send you Reaction letters to is... Reaction, Amstrad Action, 30 Monmouth Street, Bath, Avon BA1 2BW. We regret that letters cannot be answered personally, so please don't enclose saes

URGENT!

AMSTRAD ACTION

Beauford Court, 30 Monmouth Street, Bath, Avon, BA1 2BW
Telephone: 0225 442244 Fax 0225446019

23rd February, 1993

Dear Amstrad Action Reader,

Next month you will witness a radical change in Amstrad Action. Not so much in the magazine, but in the already acclaimed covertape. For a start, it's now going to be called **The AA CLASSIC COLLECTION**. This means it'll feature better programs than ever before, and more of them.

Every month you will receive a full commercial program, worth at least £20. Guaranteed.

This does mean that the price of the magazine will increase by forty-five pence (to £2.95), but it also means that we're sticking to our commitment of value for money. After all, you're getting a magazine, a full program (worth at least £20) and a game (worth at least £2.95) for less than three pounds. I consider this to be an exceptional offer.

We've spent the last couple of months trawling the CPC world for full commercial versions of the best programs. This means word processors, databases, spreadsheets, printing utilities, DTP packages... the list goes on. These will help to increase the size and breadth of your software collection. This means that you really will be getting the most from your CPC, and it'll help you make considered buying decisions when choosing the really advanced programs. The first offer will be a fully working version of top word processing package **TasWord**, with spelling checker. This is Amstrad Action's most ambitious offer to date. **If you were to buy this version of TasWord in the shops, it would cost you £25.** This doesn't mean that we'll be neglecting games. The new **Classic Collection** pack will feature an action-packed full commercial game every month.

And what of the magazine itself? Well, I can assure you that it will continue to be the essential read it always has been. It'll be packed with information on the serious and the not-so-serious side of CPC computing.

AMSTRAD ACTION IS 100 PER CENT COMMITTED TO THE CPC. IT IS THE ULTIMATE CPC PERIPHERAL.

I look forward to hearing your comments on the **Classic Collection**. I feel certain that you will be as enthusiastic about this as I, and the rest of the Amstrad Action team are.

Kind regards,

Colin Campbell
Publisher

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Balrog

Adventuring news, views and awards.

Welcome to yet another missive from the mighty Balrog spreading the word of adventure to all his followers. There's no hanging about this month, we go straight into the most awaited event in the adventurers' calendar...

The Balrog awards results:-

The response to the Balrog awards was very impressive – letters appeared from all over the World, and the results were as follows:-

The Top Five Adventures Of All Time:

5 **Magnetic Moon** FSF Software

4 **Price of Magick** Level 9

3 **Hobbit** Melbourne House

2 **Bard's Tale** Electronic Arts

According to AA readers, **Helvera Mistress of the Park** is the best adventure of all time.

Well done to Bob Adams, the author, for writing such a popular game!

The award for the best text adventure of the year was a close-run thing but the winner was... (sound of an excitedly-ripped open envelope)



Helvera Mistress of the Park!

The best graphic adventure of the year was also very close, but eventually Rob Buckley's **Eve of Shadows** came out on top. *Eve of Shadows* also scooped the award for best PD adventure.

Wow Software deservedly (I think!) won the title of best software house (well done Joan!) and **Adventure PD** won the title of best public domain library.

Adventure personality of the year was another close run award (at one point it looked like yours truly would win but unfortunately I didn't!) which was eventually given to **Debby Howard** of Adventure PD.

And the award for the most promising author went to **Simon Avery**. And why not! (Brilliant Barry Norman impression by the Balg... NOT!)

The results of the Balrog questionnaire were also very interesting – the average age of a Balrog reader is 17 and 5% of Balgers are female (Balgettes?). There's an even split between 464 and 6128 owners with quite a few adventurers without disk drives. (The Balg was surprised by this – I thought many more adventurers would have disk drives so that they could play the various Infocom, Magnetic Scrolls and PAW games).

Nearly all of you gave the Balrog column a good mark out of ten (it averaged out to about 8.5) and most peoples favourite section was the cluepot, with the GAC Clinic and Lords & Ladies being the least popular (although this was often a

matter of taste – some people gave marks of 10 for Lords & Ladies and others gave it 0). Suggestions ranged from the silly ("Why don't you become a vegetarian and stop eating all those hobbits?") to more constructive comments which have all been eaten (but in a very intellectual kind of way).

Finally, as promised, two lucky readers won a game for their troubles of sending in the questionnaire. Well done to **Marc Curtis** of Liverpool and **Graham Booth** of Tadcaster.

If you have anything to say about an adventure game or the adventure scene in general then write to the Balrog at the usual address. Sorry but the Balrog cannot reply personally – I have enough on my plate trying to control all the orcs that live with me!

GAC Programming Clinic

This month readers have sent hints on how to get the most out of GAC...

Dear Balg,

I overcame one little difficulty in a way other users may find helpful. Unless you are extremely well organised, it can be a pain remembering the next number to use for your verbs, nouns and adverbs. I always have one of each called 'AA' carrying the highest number.

So, when I need a new verb, the screen displays all my verbs in alphabetical order with AA sitting at the top (naturally!) showing the next number. If it were, say, 47 and I needed a new verb, Twist, I can immediately delete 47, enter 47 Twist and 48 AA.

Ray Bryan

Dear Balrog,

Does anyone else know about the ADVINMAN.ADV file that follows QS.ADV on the covertape? It is an amusing little adventure, and it is very helpful to be able to examine the GAC conditions used in it and see how they work.

C Hetterington

Multipart adventures

Although it is not possible to link various parts of a game together so you can carry through objects, there is another way to make multi part adventures – simply at the end of the first part give the player a password for the second part and then at the start of Part Two, make the start location have the description 'from Part One...' (making sure you have no exits from this location. Then just create a condition so that when the password is typed the player is transported to Part Two proper. However you won't be able to take objects across from Part One – you have to try and make Part One end with the player carrying either no objects or a few objects which you can predict (so at the end of Part One you could attack the player muggers who steal all his objects etc).

Contacting the Balrog

To communicate the Balg, write to him at Amstrad Action, Future Publishing, Beauford Court, 30 Monmouth Street, Bath, Avon BA1 2BW

Letters

Dear Balrog,

I am conducting market research into the demand for Adventure Software on the Amstrad (tape/disk) as I am thinking of starting up an adventure software house to try and revive some of the old flare for the games.

Is it possible to print this plea for help and ask everyone that's interested to write to me. **Iain Quigley, 14 Bute Court, Greenock, Inverclyde, Strathclyde, Scotland PA16 7AG**

Good luck Iain and keep me up to date if anything comes of your idea! **The Balg.**

Dear Balrog

What is your favourite Level 9 game?

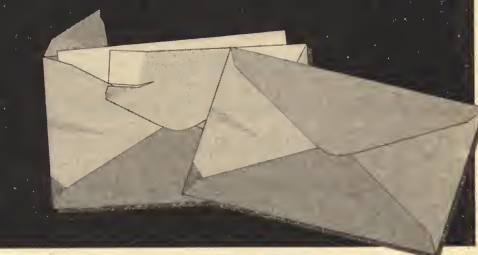
Robert Melody, Purley

Probably Worm in Paradise – the game is massive and has some very tricky puzzles. Thanks for the letter and GAC hints, Robert. Unfortunately I can't print them as they came from another magazine. **The Balg.**

Dear Balrog,

I was thinking of buying *Bloodwych* as I have greatly enjoyed playing *Bard's Tale*. I was wondering if it was worth getting, how difficult it was and where on Earth to get it! I'm also looking for the old RPG *Rings of Darkness*. **Tom Ford, 5 Sheperds Way, Harpenden, Herts AL5 3HF**

Bloodwych is well worth getting – however you may have difficulty finding it now. If anyone wants to sell their copy then get in contact with Tom. *Rings of Darkness* is now pretty ancient and could be very difficult to get hold of. Even if you do manage to you'll probably only get it on the Fourmost Adventures compilation. Again if any readers can help then they should get in touch. **The Balg.**



Lords & Ladies of Adventure

I always have to tell any possible newcomers out there how this bit works, so if you've heard it before, skip to the start of the list! For you newbies, this is how this section can help you... There are a number of CPC adventurers who are willing to share their knowledge with you. If you have a problem with any of the following

games, simply drop a line to the Lord or Lady who's got the solution. Enclose a sae, and remember to keep your needs as simple as possible. Complete solutions are out – these kind volunteers have their lives to be getting on with!

Adventure Quest ● Dungeon Adventure ● Gnome Ranger ● Imagination ● Knight Orc ● Kobayashi Naru ● Jewels of Babylon ● Lancelot ● Lords of Time ● Mystery of Indus Valley ● Price of Magik ● Redmoon ● Return to Eden ● Shadows of Mordor ● Snowball ● Souls of Darkon ● Venom.

Wendy Watters, 82 Booth Road, Stacksteads, Bacup, Lancashire OL13 0SF. Tel: (0706) 877518

Classic Adventure, Fantasia Diamond, Hobbit, Hollywood Hijinx ● Inca Curse ● Mountains of Ket ● Planet of Death ● Sorceror. **Dave 'Flossie' Havard, 21 Belvoir Close, Fareham, Hants PO16 0PJ**

Forest at World's End ● Jewels of Babylon ● Seabase Delta. **James Mackle, 45 Kenure Park, Rush, Co Dublin, Ireland**

Bard's Tale ● Hitchhiker's Guide ● Laser Squad ● Lord of the Rings ● Lords of Chaos ● Lurking Horror ● Price of Magic ● Quill (+Illustrator) ● Scapeghost. **Simon Netherwood, 36 Toothill Bank, Rastrick, Brighouse, West Yorkshire HD6 3EZ. Tel: (0484) 719326 5-9pm weekdays, 12-11pm weekends**

Andy Capp ● Price of Magic. The Kenderian, 475 Westhorne Ave, Eltham, London SE9 5LR

Jewels of Babylon **Chris 'The Barbarian' Gore, 22 St. Anthony's Pk., Mallow, Co. Cork, Ireland**

Help!

Stuck in an adventure? Or desperately trying to find one – the helpline is the place for you! Just send a postcard to Balrog's Helpline at the usual Balrog address.

● Patrick Dyson from Shipley wants to know how do you glue the map and open the safe in *Subsunk* – can anyone help? ● Wanted: Genesis instruction booklet and hints and tips for *Moonmist*, *Lancelot* and *Slaine*. **Dominic Corby, 62 Roxwell Road, Chelmsford, Essex CM1 2ND. Tel: (0245) 353718** ● Mark Hudd is stuck on Level 6 of *Bloodwych* – does anyone know how to get past the green pads? He also wants to know what the various wands and rings do. **2 Bankside, Staple Hill, Bristol, BS16 5LQ**

● Philip Carver is stuck in no less than three games. He wants to know how to stay in the kitchen in the *Famous Five*. How to move the lift in *The Pawn* and, finally, how to persuade the sessiones to retreat at Tintagel in *Lancelot*. **20 Pirie Road, West Bergholt, Essex, CO6 3TA. Tel: (0206) 241181**

Balrog's Cluepot

Cluepot

This month's honeypot of clues comes to you courtesy of the following do-gooders... Thomas Christie of Grangemouth, Richard Jamieson of Aberlour, Katharyne Allen of Guernsey, Dominic Corby of Chelmsford and Robert Smith of Gwynedd.

Case of the Mixed-up Shymer

- Examine garden display for pack of seeds.
- Give them to Mary, Mary, quite contrary to complete the first puzzle and get gloves.
- Put all in briefcase, find tramp in park and attack him, you will now be taken to hospital.
- Wait until the nurse goes, don't get watch.
- Get up. Get cases and papers. Get up.
- Put briefcase on empty bed, south, south, open locker, get stethoscope and clothes, north, east, put all but papers in pillowcase, wait for second footsteps outside, wait, west, west, wear bandage, lie on bed, wait, wait. You are now in the ambulance.
- Wear stethoscope and wait until you are dropped off.

Erik the Viking

- Blow the horn to summon your friends.
- Type pull boat in the boathouse.
- Don't drink wine offered by enchantress.
- When you meet Dragon of the north sea, send Erik up mast and up on to dragon's nose. Dragon will sneeze and blow you and the boat away. To avoid this, block his nostrils with the bedding from the great hall.

Microman

- Get lighter, examine car, climb seat belt, wind handle and jump to escape the car.

Mordon's Quest

This one's especially for Rix.

- Make a blowpipe to despatch the pygmy and then use the pygmy to get passed the plant.
- Lay down the blanket over the quick sand to walk over it safely.

Rigel's Revenge – Part 2

- To get passed the checkpoint: From start: Ex2, wait until you hear marching to east, E, N, E, get rifle, examine seat, get documents, W, S, W, wait again until you hear marching to the east, E, Sx2, Ex4, S, E, dig and get light guide.

Seabase Delta

Another one for Rix!

- Enter car, fasten seat-belt and insert card in slot to get car in station to move (the card is obtained from the dead body).

Smashed

Robert Smith! This one's just what you need.

- Inject Clingon with anaesthetic.
- Get cat and then enter chopper, switch on then pull joystick to get the key.
- Inject Crank with sodium pentathol.
- Get Clingon's dress.
- Hypnotise crank with Padre's book and give him the dress.
- Drill pills and string them with catgut to make fake pearls.

Technical Forum

This month RICHARD FAIRHURST answers loads of your letters. If you have a pressing technical query then just write it down and send it off to Technical Forum, Amstrad Action, Beauford Court, 30 Monmouth Street, Bath, Avon BA1 2BW. We'll try and help. Now let's make a start on those letters...

Multiface Questions

This month AA is going overboard with tips for Romantic Robot's little black box. Here are some of the questions you've sent us about it...

ANCIENT AND MODERN

I have recently purchased a second-hand Multiface 2. When I first attempted to use it, the game I tried to load (*Rainbow Islands* on disk) did not load. I read in AA that it is possible to hide the Multiface by pressing the Stop button then R. However, this did not work. In fact, only a small selection of my tape games loaded successfully. Is there a way of hiding it?

Matthew Boulton
Kent



Rainbow Islands - if it doesn't load, what's wrong?

Older Multifaces, unfortunately, don't have the facility to be hidden - this was introduced after software houses got wise to the device and started making games crash if a Multiface was detected. As you bought yours second-hand, it seems that you have one of these! The best suggestion is to phone the manufacturers, Romantic Robot (081 200 8870) and ask them if they could upgrade your Multiface to the latest version. AA

PLUS PROBLEMS

I have recently attached a Multiface 2 to my 464 Plus. Everything works well until I try and switch the Multiface off by selecting Return from the Multiface's menu: anything I type in, I get the message "Press PLAY then any key" and if I try and press ESCape, the disc drive I have attached starts. The only way I can stop this is by resetting my computer. Please help me, or I can't transfer many of my tape games to disk. Thanks.

Bruce West
March

Are you using the special CPC Plus version of the Multiface? A slightly different model is needed for correct operation on 464 Plus and 6128 Plus machines. If you bought the Multiface second-hand, without realising that it was a CPC version, this might explain why it's not working. Again, a phone call to Romantic Robot (081 200 8870) should sort things out. If you are using the Plus version in

```
60 DATA 48,D4,4C,45,46,D4,00,CD,0B,BC,2B,2B
70 DATA C3,05,BC,CD,0B,BC,23,23,C3,05,BC
```

This sets up two new commands: IRIGHT scrolls the screen right, and ILEFT scrolls it left. Like all RSX programs, you should only RUN this program once after every reset. AA

DOWN UNDER

1. In Australia, there is hardly anything for the CPC, except Amstrad Action! How is it possible to purchase the latest CPC software?
2. I use Stop Press on my 6128 and the printing is incredibly slow, because it uses only two pins. Could I get a program which increases the

conjunction with a WAVE widget, it may be a case of a dirty expansion port somewhere along the line. Find an ink rubber (or even better, a Peco track rubber from a model railways shop), and clean all the expansion port connections with it. If you still have no luck, return it to Romantic Robot. AA

ROBBING THE BANK

I find the Multiface's toolkit brilliant for altering the contents of memory, hacking games, etc. But how do I get to fiddle about with the extra memory of my 6128? The manual says something about pressing 'S', but I don't understand what it means: all that happens when I press it is that a question mark appears and I can't type anything. Please help me!

Robert Ham
Edinburgh

When you press S, the Multiface wants to know the bank-switching code (from 0 to 7) to use. This number determines whereabouts in memory the extra 64K is switched in.

The easiest way to access extra memory is to do the following: if you press S followed by 2, then whatever you do will alter the extra memory instead of the first 64K. (This is very useful for altering the second program if you're using Flik, from last month's covertape!) Pressing S followed by 0 brings back the first 64K. Unfortunately, the Multiface can't actually alter memory in 256K RAM packs above the first 64K! AA

number of pins and the speed?

3. I can format and read sectors with a length of six, but is it possible to write to this format?

Matthew Brown
Australia

1. Most of the mail-order companies which advertise in AA will be happy to send software overseas, for an additional postage charge. Write to them with an International Reply Coupon for details.
2. X-Press, by Medway/King, is one of the best programs that will deal with your specific problem. Unfortunately, it's not being advertised any more, but placing a Wanted advert in the Small Ads section in AA might help.

Alternatively, a Polish PD program prints Stop Press pictures quickly - try your friendly local PD library. (That's if you've got one. If not, try a British one.)

3. Not really. It is possible to write a small portion of data to this format, but not the full 8K: this means that a CPC cannot copy such sectors, a fact used by many disk protection systems. However, an Australian boffin has reputedly come up with a hardware modification for your CPC which lets you do this. More details when we get them. AA

CANON LAW

I am writing to enquire about the Canon bubble-jet printer. I have heard that it can emulate an Epson nine-pin dot-matrix printer. Would this printer be compatible with my CPC 464 (upgraded to a 6128)?

A. Baker
Northampton

The Canon bubble-jets are increasingly popular these days, and no wonder: the output quality is excellent. Make sure that you buy a BJ-10ex, rather than a BJ-10e. The 'ex' model is the one which emulates an Epson 9-pin, which most CPC programs support. You'll need a CPC printer cable, too: O J Software can sell you one for £8.95 (0257 421915). AA

SIZING THINGS UP

Please help: is it possible for the length of a file to be recorded in a variable?

Tom Ford
Harpندن

Enter this listing and RUN it:

```
10 MEMORY &9FFF: FOR n=&A000 TO &A021
20 READ a$: POKE n,VAL("&"a$)
30 NEXT n: CALL &A000
40 DATA DD,6E,00,DD,66,01,46,23,5E,23,56,EB
50 DATA 11,00,C0,DD,E5,CD,77,BC,DD,E1,DD,6E
60 DATA 02,DD,66,03,71,23,70,C3,7D,BC
```

Once RUN, you can get the length of a file (in bytes) into a variable as follows:

```
variable%=0: a$="filename": CALL
&8000,@variable%,0a$
```

That should do the trick! AA

TOP TIPS

MACPCPC

In Reaction (AA89) you printed a letter from a reader offering to send people details of how to transfer files from a CPC to an Apple Mac. Unfortunately you forgot his address, but it's easy anyway. Simply copy your files to a PC format 3.5" disk (using 2-in-1), and read this disk on the Mac using Apple File Exchange (which should come free with your Mac). If you have an old Mac without an Apple SuperDrive installed, you need to buy a SuperDrive for it.

I use this regularly for copying files between Protext on my 6128 and my school's Mac Classic II - as long as they are saved in ASCII format, MacWrite II can load them with absolutely no problem.

Matthew Khan
Powys

USER-FRIENDLY

I have read a lot of tips that say that you can change the user area to anything from 0 to 255 (with 229 being the erased files area) by simply poking this number into &A701.

Well, this worked on my 6128, until I bought a second ROMBO and fitted some ROMs (like Protext) in slots from 8 up: from then on it did nothing. However, I have come up with a POKE that works on all CPC setups. Type this line:

```
POKE PEEK(&BE7D)+256*PEEK(&BE7E)+1,user
number
```

Or, if you remove the '+1' and place 0 or 1 after the comma, you can select a disk drive without the usual whirring!

Chris Jones
Aldershot



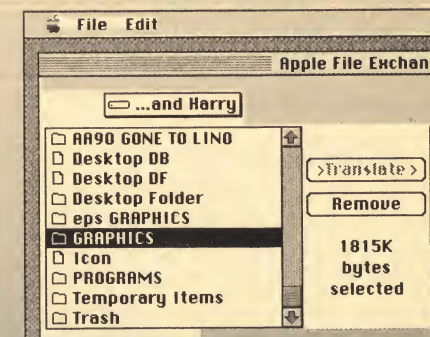
Stars and stripes - easy huh?

MOVIN' ON UP

1. Will the 256K upgrade work on the CPC 464?
2. I am thinking of getting an EPROM programmer: do you think it is the best for writing a program?
3. I am hoping to upgrade my CPC 464 to 6128 configuration: how could my 464 match the 6128?
4. What does the MP1-F do for the 464?

James Henry
Colchester

1. Yes, although remember that not many programs can use the extra memory. To use it in your own programs, you'll need to use the supplied software (if you don't have a disk drive, make sure that it comes on tape!).



This is what Apple File Exchange looks like. It is extremely useful.

STARS AND STRIPES

I've discovered a great tip to produce stripey writing on the CPC's screen (I use a 664). Simply POKE &B72F with a number between 0 and 255: change the number for different effects (I find 60 gives a good stripe effect in MODE 1). Or, to change the background, POKE &B730 instead. Smart eh?

Don Tucker
Llangollen

The same addresses should work on the 6128. On the 464, try &B28F (for PEN) and &B290 (for PAPER).AA

PARLEZ-VOUS PROTEXT?

In Technical Forum (AA85), Alex Williamson described how to get accents for European languages for those sending letters as BASIC programs. I think I have an even better solution: just use Protext. It gives you a number of commands which set up the character set for foreign languages, such as French, German and Italian.

Even better, when you quit out of Protext, the letters stay the same! This means that, if you have *Promerge Plus*, you could have IP,"FRENCH" as a line in your BASIC program, which would redefine the characters and let you use them in your program. Of course, this is of absolutely no use if your pen-pal doesn't have *Promerge Plus* and *Protext* too. Still, it might come in handy!

John Waite
Woolwich

2. Only if you want to write machine code programs on ROM, and even then, you'll need a RAM-ROM (Avatar, 0442 251705) to test them. If you don't already have a disk drive, this is the most useful addition. For the budding machine code programmer, a ROM-board, Protext and Maxam 1.5 on ROM are recommended.
3. You'll need a disk drive (either an Amstrad DDI-1, or Siren's 3.5" equivalent - 061 724 7572) and a RAM expansion (64K or 256K). If you really want to go the whole hog, you can buy a 6128 ROM, to give you the new 6128 commands such as FILL (WAVE, 0229 870000). However, this isn't usually necessary for running 128K commercial programs, and fitting can be very difficult on some 464s.
4. The MP1-F lets you display the output from

), if any, do you own?..... 79H

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Back Issues

Sold out! Issues 1-54, 56-65 • Still available! Issues 55, 66, 68, 71-81



Issue 82; On the tape! PowerPage and playable Lemmings demo. Inside: reviews of Lemmings and The Addams Family. Plus! Buyers' Guide to art packages.



Issue 83; A packed tape with Tetris game, music composer and a full game - Defenders Of The Earth. Inside: CPC bargains in France!



Issue 84; On the tape: Famous Five, the complete game. Inside! Review of Hideo's, Virtual Reality special, the best 3D CPC games and colour printing special.



Issue 85; A look at music-making on the Amstrad, a WIMP interface and a PowerPage tutorial. On t'tape, two full games - On The Run and Link.



Issue 86; Feature on Alternative's kid's TV licences plus review of the Picasso art package. On the tape - Glider Rider (full game), MIDI demo and three utilities.



Issue 87; Inside - the complete history of Dizzy and review of the Amstrad NC100 notepad. And! Football Manager 3 reviewed. Full game of Nexor on the tape.



Issue 88; Two complete games on the tape - Tankbusters and Penguins. Inside, Videomaster, Robin Hood: Legend Quest and Crystal Kingdom Dzy reviewed.



Issue 89; Inside - Buyers' Guide to disk drives, a look at CPC-stretching demos and Crazy Cars 3 reviewed. Plus! Wiggler and three great utilities on the cover tape.

Fancy a holiday?

WIN A WEEKEND IN ROBIN HOOD COUNTRY! PLUS FIVE COPIES OF ROBIN HOOD: LEGEND QUEST!

Nottingham Castle

Okay, hands up who's seen Robin Hood: Prince of Thieves? It's good, isn't it? Especially the bit where our Kevin swings through the burning trees and jumps on the baddies. That's all supposed to take place in Sherwood Forest, the very same forest that you could be wandering around if you win this rather ace competition.

Simply by filling in that coupon at the bottom of the page, a family of four are in with a winning chance to be taken on a guided tour of Nottingham, taking in the castle, the museums, the rather nice shops and the Tales of Robin Hood. The latter is a sort of interactive exhibition with all the smells, sights and sounds of mediaeval England. But that's not all! You'll also spend the weekend in one of Nottingham's many fine hotels, with breakfast and dinner thrown in. (Well, maybe more 'served' than 'thrown', actually!) And! You'll be taken around Sherwood forest itself. As an extra special treat you may get to meet the Sheriff of Nottingham. We can't promise anything cos he goes away a lot, but if he's in town we're sure he'll be dying to meet you! You don't go away empty-handed either, the City of Nottingham also mentioned some free gifts. Yum!

As runners-up prizes, we've got five copies of the Codies' Robin Hood: Legend Quest. A very smart prize indeed!

To be in with a chance of winning this fabulous family weekend away, all you have to do is answer the following question...

★ Which of the following is one of Nottingham's main roads?

- a) Friar Tuck Avenue
- b) Maid Marian Way
- c) Robin Hood Place

Write the answer on the coupon, stick it on to the back of a postcard or envelope and send it off to "I'm With The Bloke In The Green Jerkin", Compo Amstrad Action, 29 Monmouth Street, Bath, Avon BA1 2DL. All entries must be on the Ed's desk by the first of April, 1993.



Everywhere in Nottingham, you'll find reminders of Robin Hood.

The Rules

★ Employees of Future Publishing, CodeMasters and The City of Nottingham Council are barred from entering this compo.
★ All entries must be received by the first of April, 1993. Any entries that reach us after that date will, I'm afraid, be chucked in the bin.

(That's after we take the stamps off for charadee.)

★ Multiple entries are very naughty and not allowed.

★ The Editor's word is absolutely final.

Sherwood Forest - home of outlaws and also the place where Robin and Marian were married.

Robin Hood Compo

To: I'm With The Bloke In The Green Jerkin, Competitions, Amstrad Action, 29 Monmouth Street, Bath, Avon BA1 2DL

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My address is

Postcode

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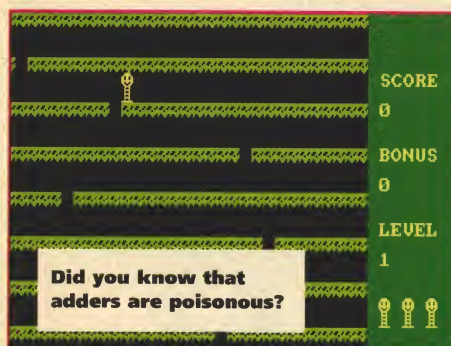
Public Image

TIM BLACKBOND wants it to be known that he lives in Barnsley and eats coal. We don't believe him, but here's his PD news anyway...

Adder

By Simon Walker
Available from PD Fun

This is a simple game based on the concept of an ever-growing snake. Hands up those who have heard of it before! The object of this game is to



guide your snake around a screen (avoiding the walls), eating the snakey staple-diet – numbers! Each number appears on the screen one at a time and slowly counts down until it reaches zero when... it disappears. If you get to it fast enough, the appropriate number of segments will be added to your body. It starts off easy enough for a two year old to play it, but as you get better the game gets harder as it's difficult to move around with your back legs three miles away. (But snakes haven't got legs. Ed)

The graphics are simple, but then aren't all really lasting games simple in the visual department? Doubtless, this will keep you going for many moons to come.

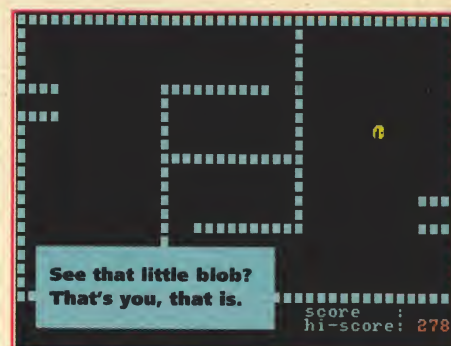
78%

Spring On A Thing

By Frederick Nordakke

Not to be confused with the Gremlin game of almost the same name (*Thing On A Spring*), *Spring* is another one of those simple concept games to while away Sunday afternoons.

Spring has to get to the top of various multi-platform screens by leaping through the gaps that randomly appear on each row. The gaps wait for a few seconds before being replaced by



another hole somewhere else along the line. Sometimes it's possible to accidentally fall down a hole, in which case you'll have to climb back up again and waste valuable and limited time. Death awaits all those springs that are unfortunate enough to drop to the bottom row, so you'll have to be quick if you're to succeed.

Once you've passed the first level, you're treated to more of the same – except that arrows shoot across random rows, giving you something else to worry about. And that's about it. *Spring* will bring an hour or so of pleasure for the aforementioned Sunday afternoon, but it gets too repetitive for long-term enjoyment.

57%

Loose Talk

Amsof PD address presumed missing...

It's all very well to give a new library a huge plugging, but it all becomes so very, very pointless when the address is left out. (*Hear, hear! Ed*) This was exactly what happened in the case of Amsof PD last month. Just to set the record straight, here is that elusive address: ★ **Derek Hyland, Lyssanly, Cloyne, Middleton, Ireland**

Amstrad Users Unite

Apparently, the United Amstrad User Group has been running for several years, yet has been constantly ignored by that get who runs the AA Public Domain column. I'm sorry. Anyway, past offences aside, for a paltry £8 per year you get full membership including a bi-monthly fanzine, free Public Domain and a smashing postal-book

lending service. Write for more information to: ★ **UAUG, c/o Tony Baker, 26 Uplands Crescent, Fareham, Hampshire PO16 7JY**

Alive and kicking updates

After the exclusive AA review of Lee Rouane's fanzine, improvements have been made on the presentation front. Now, a font is used that actually has a lower case! The latest issue has no less than thirty-six pages filled with cheats, reviews and even tape-to-disk information. All this for a mere £1.20. Write to:

★ **Lee Rouane, 3 Causeway House, Kelstedge, Chesterfield S45 0DW**

Zap T' Balls: the untold story

There are a hell of a lot of angry people on the continent, particularly EGS after the game *Zap T' Balls* has been freely distributed around Britain. Well, apparently it isn't public domain.

Far from it, in fact. The only public domain version of *Zap T' Balls* is the one that only has five levels and comes with a preview of the Advanced Edition. This only leaves the problem of what is to be done with the many libraries that have it within their catalogues. The best advice would be to remove it, quickly...

A short public announcement...

Artificial Intelligence issue eight was released just before Christmas 1992 and as a consequence of the usual poor postal service around this time of year, I have received a few letters from people saying that they have not received a copy. If you have ordered, yet still not seen issue eight of AI, please write and tell me at:

★ **19 Lee Street, Liversedge, West Yorkshire WF15 6DZ**

You'll get a replacement copy and I'll know who's just trying to get a free one.

The mailbag

As the number of letters has dramatically picked up, I can't guarantee a personal answer, so don't waste a stamp by putting a sae in the envelope. Sorry an' all, but what can you do? Letters that cannot be answered in AA will almost certainly be in Artificial Intelligence!

NOWHERE TO ROAM

After reading a few issues of AA, various PD items have appealed to me. My problem is that I don't have the distributors' addresses. I would be grateful if you could send me some addresses, in particularly that of Robot PD as *Power Tetris* looked really radical. Could you possibly tell me how much *Power Tetris* is?

Gregory Birchall
Coventry

No addresses printed last month! See what lack of space does to a man (lobby your MP for more PD pages now!). If you'll care to look elsewhere about this page, you'll find a number of addresses that will come in useful.

Robot PD is temporarily closed for re-organisation, so orders will be ignored until he can clear the backlog. The price of *Power Tetris* varies from library to library. The cheapest library in Britain is Sheepsoft at a mere 20p per disk side. AA

CUE VIOLINS, CUE SIMON BATES AND GET THE HANKIES!

I have been a subscriber to AA since issue one and was very pleased when a PD spot started. However, since then I have encountered nothing but problems. I do realise that these things are not out to make a profit, but I do not mind paying more for a better service.

I spied the *Print Enhancer* review and sent two disks to Presto at their new Neath address (which, I believe, has moved again). I got no answer. Also, I sent a letter to Dartsma asking for some of their clip art. I enclosed a sae and got no reply.

I think that all the PD libraries that are plugged in AA should carry some kind of guarantee that they will return orders, instead of just leaving readers without their disks.

Dave Wilkins
Northampton

Actually, I'm the one who has to take the blame for the Presto delay. I was meant to send Matt Gullam a copy of *Print Enhancer*, but due to a sudden barrage of other things, his copy was delayed. You were not the only one to be kept waiting – I am sorry.

I must say that, in principle, I agree with you – PD librarians should send disks back as soon as possible. But remember that it is simply no more than a hobby to most, seeing as no money is made. AA

Fanzine review extra!

If you run a fanzine, no doubt it could do with a good plugging, especially if it wasn't mentioned in the last fanzine round-up in *Amstrad Action*. Send me a copy and I'll return a sparkly copy of AI for your troubles and a review. You can't say fairer than that!

Eurostrad

Editor: La Redaction ■ Issue Two: £1 ■ UK: Malcolm Smith, 2 Baily Place, Moray, Scotland IV31 6RW ■ France: Thomas Fournier, La Hemelinere, 50450 Hambye ■ Espana: Manuel Laorden Mas, Valldemosa 64, Entlo 2, 08016 Barcelona

Eurostrad claims to be the first European fanzine for the Amstrad CPC. Well, that's what it says on the cover so it must be true. It's a twelve-page A4 fanzine, bound together with one staple in the top-left-hand corner of the page and is written in no less than three languages, these being English, French and Spanish. There should be no disappointments here as I'll bet every reader has a firm grasp on at least one of these dialects.

So what's actually in the mag, then? Firstly, there's a British fanzine round-up of which some rag with the name Artificial Intelligence comes out on top of three others with a spanking nine point five out of ten! I think I'll be buying a copy of that fanzine very soon indeed! (*That's enough AI. Ed*)

Quite a lot of it is actually in English, and there's a round-up of several British PD libraries, as well as a brief look at French fanzines and a short article on piracy in the United Kingdom.

Unfortunately, no matter how interested you are on the subject, you'll be none the wiser if you can't speak French.

The presentation is good, although in some areas a font is used that is both small and completely upper case. True, if you want a full-English read, this may not be the one for you but is still a very interesting read. It even has a Smurf on the cover!

78%

Amstrad Express

Editor: Salman Sandhu ■ Issue One: 50p + disk ■ Salman A Sandhu, 17 Cromer Road, London SW17 9JN

Take a look at any French or German disk-fanzine and you'll be astounded at the amazing mix of both graphics and music. Now, stop that and move to Britain. Firstly we have CPC Domain which, and let's be fair, is an example of what not to do with a disk fanzine. Amstrad Express, I'm sorry to say, takes this concept one step further.

The entire magazine spans two sides of a disk. The contents are little more than uncompressed screen files (some of which are ripped straight from computer games) and ASCII text files, bound together with a simple menu system. Oh well, the presentation would have anybody vomiting in loathing and disgust, but it's the content that counts. Isn't it?

Unfortunately, this bit's pretty much the same. There's also some POKES and keypress cheats (the *TMH Turtles* POKE I'm sure used to be in AA) and an adverts section which is a collection of

WATER, WATER EVERYWHERE!

I am a boating enthusiast (when I can get away from my 6128!) and would like to get hold of a navigation program similar to PC Wayplanner. Does such a package exist for my machine?

John Haas
Essex

I have no knowledge of a boating navigation program on the CPC whatsoever, especially public domain! If anybody else does, feel free to tell me about it. AA

Postbox

For those of you who are interested in getting hold of more PD, here a few addresses to write off to. I'll have more for you next month, but I seem to have run out of room already!

ADVENTURE PD Debby Howard, 10 Overton Road, Abbey Wood, London SE2 9SD

DARTSMA PD Adam Shade, 47 Kidd Place, Charlton, London SE7 8HF

DEMON PD David Long, 47 Hillton Avenue, Birmingham B28 0PE

DOMAIN PD Graeme Chessier, 44 Echline Grove, S Queensferry EH30 9RU

G.D. PD Dave & Ged Lawson, 49 Woodville, Barnstaple, N Devon EX31 2HL

WORLD PD E Williams, 111 Riverside Road, Orewa, New Zealand

badly drawn screens for WAVE.

There is a good point to the magazine, and you'll be glad to know it's a great one: The Special Offers section. This includes a wide range of software and hardware going at low prices. For example, a GX4000 can be snapped up for £25.

I suppose for 50p and a disk, it isn't too much to ask but when the ASCII reader system does little more than list a file, you might as well import the text into PowerPage 128 or a less-effective DTP.

25%

Next month

Okay, so Rogues Gallery has been left out again! WHAT?! So have the charts! It's a disgrace! But don't worry yourselves, they'll both return next month along with more letters and reviews of two more fanzines, namely the United Amstrad User Group magazine and Amstrad Fun. In the meantime you can write to me at **Public Image, Amstrad Action, 30 Monmouth Street, Beauford Court, Bath, Avon BA1 2BW**. Thank you for listening, good night.

ProgLib - which disk?

```

JALE 140.ON.ms.GOSUB.180,280,370,450,530,610,
660
KABE 150.LOCATE.7,25:PRINT"Press any key"
GAKO 160.IF.INKEY$="" THEN.GOTO.160
CADH 170.GOTO.20
LANI 180.MODE.2:PRINT".....
ENTER.NAMES"
IANK 190.PRINT"....."
FAMM 200.PRINT:PRINT:PRINT
EAEH 210.FOR.x=1.TO.10000
MAII 220.INPUT".Name.of.Game/Program";NAME$(X)
.....
MAIK 230.INPUT".Name.of.Publisher";author$(X)
HAED 240.IF.NAME$(X)="" THEN.GOTO.260
BAGP 250.NEXT
HAHL 260.PRINT".No more input."
CAJJ 270.RETURN
LAME 280.MODE.2:PRINT".....
LIST.NAMES"
IABI 290.PRINT"....."
FAOM 300.PRINT:PRINT:PRINT
EAFK 310.FOR.X=1.TO.1000
HADD 320.IF.NAME$(X)="" THEN.GOTO.350
MAEN 330.PRINT.NAME$(X);:PRINT".BY.";:PRINT.A
UTHOR$(X).....
BAGP 340.NEXT
IAEE 350.PRINT:PRINT".LIST.FINISHED."
CAJJ 360.RETURN
LAAB 370.PRINT:INPUT".Are you sure.(Y/N).";a$
IAPB 380.IF.UPPER$(a$)="N" THEN.GOTO.440
KALC 390.IF.UPPER$(a$)="Y" THEN.GOTO.460.ELSE
.380
JAKA 400.PRINT:PRINT".Bye then.";CLEAR
GANJ 410.PRINT"press a key"
FAPJ 420.IF.INKEY$="" THEN.420
BAGK 430.MEM
CALJ 440.RETURN
CBPE 450.PRINT:PRINT:PRINT".Insert tape/disc.
then.press a key"
FACG 460.OPENOUT"data".....
EAME 470.FOR.x=1.TO.1000
JAJA 480.WRITE#9,name$(x),author$(x)
BAMP 490.NEXT
DADC 500.CLOSEOUT
GAEF 510.PRINT"data saved"
CAHJ 520.RETURN
CBOK 530.PRINT:PRINT:PRINT".Insert tape/disc.
then.press a key"...
EAMM 540.OPENIN"data"...
FALA 550.FOR.x=1.TO.1000.....
JANA 560.INPUT#9,name$(x),author$(x)
CALH 570.NEXT....
CANM 580.CLOSEIN
GACL 590.PRINT"data loaded"
CAGJ 600.RETURN
JAGK 610.PRINT:INPUT".Are you sure";a$
IAJC 620.IF.UPPER$(a$)="Y" THEN.GOTO.640
KANA 630.IF.UPPER$(a$)="N" THEN.RETURN.ELSE.6
20
CABC 640.CLEAR
BAAL 650.RUN
EANC 660.FOR.X=1.TO.1000
HAMO 670.IF.AUTHOR$(X)="" THEN.GOTO.700
JAJO 680.PRINT#8,NAME$(X);:PRINT#8,AUTHOR$(X)
BAOP 690.NEXT
CANJ 700.RETURN

```



Anyone who's been an Amstrad owner for some time will know that it's often difficult to keep track of the thousands of programs tucked away on disk and tape. Commercial titles, games and utilities typed in from Amstrad Action and other sources, public domain downloads – they all have to be stored somewhere and catalogued. And it's for the latter operation that *ProgLib* was created. Written by Chris Godfrey of Basingstoke, Hants, *ProgLib* is a menu-driven database which stores details and whereabouts of all your programs so that, to find one, all you have to do is enter its name and the computer coughs up the relevant info. A print routine means you can get a hard copy listing of your software at any time.

```

JAPK 10.DIM.name$(1000):DIM.author$(1000)...
IAKA 20.MODE.2:BORDER.0:INK.1,26:INK.0,0
JABM 30.PRINT".....PROGRA
M.LIBRARY"
IALA 40.PRINT"....."
FAAK 50.PRINT:PRINT:PRINT
GAIO 60.PRINT"1....ENTER.LIST"....
FANC 70.PRINT"2....LIST"....
EAAI 80.PRINT"3....BYE."
FAPP 90.PRINT"4....SAVE.LIST"
GAJB 100.PRINT"5....LOAD.LIST"
GACC 110.PRINT"6....CLEAR.LIST"
GAIG 120.PRINT"7....PRINT.LIST"
KAIE 130.INPUT"What do you choose";as

```

```

LAKM 380.LOCATE.4,12:PRINT".ONE.INCH.=.0.025.
OF.A.METRE"
MAJL 390.LOCATE.4,15:INPUT".THICKNESS.IN.METE
RS";conc
HAMP 400.concr=co*con*con*0.15
GAEE 410.concre=concr*5.6
HAOB 420.concret=concre*5.6
OAFI 430.LOCATE.4,18:PRINT".CEMENT.BAGS.....
.....";concret
PALB 440.LOCATE.4,21:PRINT".BALLAST.IN.CUBIC.
METRES...";concre
CAHK 450.GOTO.230
BAMJ 460.CLS
GACO 470.PRINT.TAB(15)"WALLPAPER"
LAKJ 480.LOCATE.4,6:INPUT".WALL.DROP.IN.METRE
S";wd
NAOI 490.LOCATE.4,9:INPUT".DIST.AROUND.ROOM.I
N.METRES";dr
EAOA 500.pap=wd*dr
EAOB 510.pape=pap/5
MAKJ 520.LOCATE.4,12:PRINT".ROLLS.WALLPAPER.RE
Q";pape
CAGK 530.GOTO.230

```

Alpha Scroll

You've all seen those funky scrolling messages on computer screens in shop windows, estate and travel agents, railway stations and the like which display on an endless sideways scrolling loop information and advertising, right? Well now you too can create scrolling messages. Manchester boy David Hall's *Alpha Scroll* reads a previously saved text file (or enables you to enter one and save it) which it then scrolls smoothly right to left across the CPC's screen. Fun for all the family!

```

JAJM 10.'**ALPHA.SCROLL**'.By.David.Hall
JAAD 20.'(C).Mar.1990.....and.Andy.Hall
AKK 30.'
KAPA 40.'-----Amstrad.CPC.version-----
HAMP 50.'for.A.M.S.T.R.A.D..A.C.T.I.O.N.
AANK 60.'
FAMM 70.IF.HIMEN=9999.THEN.100
EAEH 80.SYMBOL.AFTER.31
DAGG 90.MEMORY.9999
CAPD 100.INK.0,0

```

```

CAGH 110.INK.1,14
CAKH 120.INK.2,16
CANE 130.INK.3,2
CAIE 140.INK.4,1
CAME 150.INK.5,3
CAAF 160.INK.5,6
CACI 170.INK.6,15
CAFI 180.INK.7,16
CAII 190.INK.8,26
CAAM 200.BORDER.0
EAOA 210.store=10000
FABC 220.FOR.loop1=1.TO.46
CAHH 230.sum=0
GABA 240.READ.code$,total
HAPA 250.FOR.loop2=1.TO.24.STEP.2
KAPF 260.value=VAL("&"*MID$(code$,loop2,2))
GAOH 270.POKE.store,value
FAJO 280.sum=sum+value
FAOK 290.store=store+1
DAOP 300.NEXT.loop2
HAPB 310.IF.sum=total.THEN.340
LAPC 320.PRINT".Error.in.line.";1120+loop1*10
BANI 330.END
EABA 340.NEXT.loop1

```

```

CAOC 350.MODE.1
BAPO 360.PEN.3
HAAG 370.PRINT".A.L.P.H.A...S.C.R.O.L.L."
CAIE 380.PRINT
BAPF 390.PEN.2
MABI 400.PRINT".Type.name.of.file.to.load.or"
NAOI 410.PRINT".press.ENTER.to.create.a.messa
ge"
CADE 420.PRINT
BALO 430.PEN.1
HAHE 440.LINE.INPUT">....",lname$
GAFK 450.IF.lname$="" THEN.480
FAKE 460.LOAD.lname$,12000
CACL 470.GOTO.950
BACK 480.x=1
BAEK 490.y=1
EACB 500.store=12000
CANC 510.MODE.2
BALO 520.PEN.1
NAEO 530.PRINT".ALPHA.SCROLL.by.David.Hall..
Please.";
OAHF 540.PRINT".type your message..(SPACE.LE
FT.=.20000.)"
IABL 550.PRINT".=====.(c).Mar.1990"
FACL 560.PRINT.STRING$(80,"*")
DAIF 570.LOCATE.1,25
FADP 580.PRINT.STRING$(80,"*");
EANO 590.WINDOW.#1,1,80,4,24
EALC 600.LOCATE.#1,x,y
EAOH 610.PRINT.#1,CHR$(143)
DAGC 620.i$=INKEY$
EALH 630.IF.i$="" THEN.600
GARG 640.IF.i$<CHR$(127).THEN.690
EAAD 650.LOCATE.#1,x,y
DANE 660.PRINT.#1,"."
DAFO 670.SOUND.4,1000,2
CAHL 680.GOTO.880
FACP 690.IF.i$=CHR$(16).THEN.600
KAON 700.IF.i$<CHR$(13).AND.store<32000.THE
N.760
BAKJ 710.CLS
LAHP 720.PRINT".Type.in.filename.to.SAVE.or"

```

```

LAAM 730.PRINT".press.ENTER.to.continue.-";
GALF 740.LINE.INPUT"",sname$
CADL 750.GOTO.950
GAEL 760.IF.ASC(i$)>180.THEN.850
DAGL 770.SOUND.4,100,2
GANK 780.POKE.store,ASC(i$)-31
FADL 790.store=store+1
EANC 800.LOCATE.#1,x,y
DADH 810.PRINT.#1,i$
CADE 820.x=x+1
GACK 830.IF.x=81.THEN.x=1:y=y+1
HALL 840.IF.y=21.THEN.PRINT.#1:y=y-1
DAKF 850.LOCATE.71,1
FAKL 860.PRINT.32000-store
CAOK 870.GOTO.600
GAEF 880.IF.x=1.AND.y=1.THEN.600
CAME 890.x=x-1
GAKO 900.IF.x=0.THEN.x=80:y=y-1
FAFM 910.IF.y=0.THEN.y=1:x=1
EAEJ 920.POKE.store,1
FABL 930.store=store-1
CADL 940.GOTO.850
CADD 950.MODE.0
JAJI 960.FOR.loop=store.TO.store+22
EAGC 970.POKE.loop,1
DAXN 980.NEXT.loop
EADJ 990.POKE.loop,255
GALH 1000.IF.sname$="" THEN.1020
JANJ 1010.SAVE.sname$,b,12000,store-11960
BAFM 1020.CLS
CAFH 1030.INK.2,1
BAPF 1040.p=10
FAMP 1050.FOR.t=1.TO.640.STEP.4
NAIB 1060.PLOT.t,398,p:DRAWN.0,-150:MOVER.0,-
100:DRAWN.0,-180
GALN 1070.p=p+1:IF.p=16.THEN.p=10
CAIC 1080.NEXT
EAPF 1090.p=10:CALL.10000
HAKK 1100.INK.p,1:CALL.&BD19:CALL.10006
IAON 1110.INK.p,0:p=p+1:IF.p=16.THEN.p=10
CAPP 1120.GOTO.1100
IAKL 1130.DATA.CD2027CD3B27CDBE27CD8D27,1398

```

```

IADI 1140.DATA.CD6D27C92F47E360011F57E,1399
IALG 1150.DATA.018007EDB03E80326F9D21DF,1313
IACH 1160.DATA.2E226D9DC30C28DD21D08406,1193
IAAB 1170.DATA.0BC5DD5E313528115000E20,927
IAFH 1180.DATA.06087EDD7700DD232310F7D,1255
IAKF 1190.DATA.190D20F0DDE1110800DD19C1,1220
HAFP 1200.DATA.10DB21010022409CC91120C3,968
IANC 1210.DATA.2188900620C5D5015000EDB0,1255
IAND 1220.DATA.D1EB7CC6086730040150C009,1211
IAPJ 1230.DATA.EBC110E9C921D084ED5B409C,1799
HAJO 1240.DATA.191188903E20015000EDB001,911
IAFA 1250.DATA.0800093D20F411F47E210893,929
HAGO 1260.DATA.0E1006501AFE002801772313,610
IAOG 1270.DATA.10F60D20F1C93A40C3DE607,1325
IAMD 1280.DATA.32409C21F57E11F47E010005,1067
IADJ 1290.DATA.EDB021437FDD212D280E08ED,1238
IAOI 1300.DATA.5B6B9D1A473A6F9DA0FE0028,1232
HANO 1310.DATA.03DD7E00D511500060D27719,812
IAHI 1320.DATA.10FCD113DD230D20E23A6F9D,1349
IAFI 1330.DATA.1F326F9DFE00C03E80326F9D,1303
IAAK 1340.DATA.2A6D9D2326D9D7E7E7E7E7E7,1317
IABE 1350.DATA.21E02E2269D7E11080021F4,1031
IALK 1360.DATA.9F471910FD226B9DC9F03CFC,1575
IAJF 1370.DATA.03FC3CF0F0CC883030303064,1427
HAGN 1380.DATA.CC0C200000000044C0C2030,420
HAHL 1390.DATA.303030640C0C200000000044,368
HAMK 1400.DATA.0C0C200000000044C0302000,216
HAEI 1410.DATA.000000443000000044880000,320
HAPI 1420.DATA.000000008844000000880044,280
HANJ 1430.DATA.000088000400400088000400,348
HAMI 1440.DATA.0800440000000040008800,216
HAMF 1450.DATA.000000880044000088000400,88
HAPJ 1460.DATA.888800040000880044000000,352
HAJE 1470.DATA.080400000000000040000000,16
HADB 1480.DATA.000000000088000000000000,8
HAJF 1490.DATA.080400000020000400000080,56
HAIE 1500.DATA.10100008000040020000400,80
HADE 1510.DATA.000000100000800000000020,56
HACF 1520.DATA.000400200000100008000010,84
HAEF 1530.DATA.00002000040000000020100000,84
HAMX 1540.DATA.000000001020000000CC8800,388
HALL 1550.DATA.00000044CC0C200000000044,384
HAJM 1560.DATA.0C0C200000000044C0C2030,228
HAHL 1570.DATA.303030640C0C200000000044,368
HAOJ 1580.DATA.0C3020303030306430000000,432

```

Imagination

Each month, we get a lot of Type-Ins. We get a lot of really good software. However, we also get a lot of stuff that really isn't worth printing. Why? It's not because it's too long, too short, or badly programmed. The reason a lot of programs fail to get on these pages is a lack of imagination.

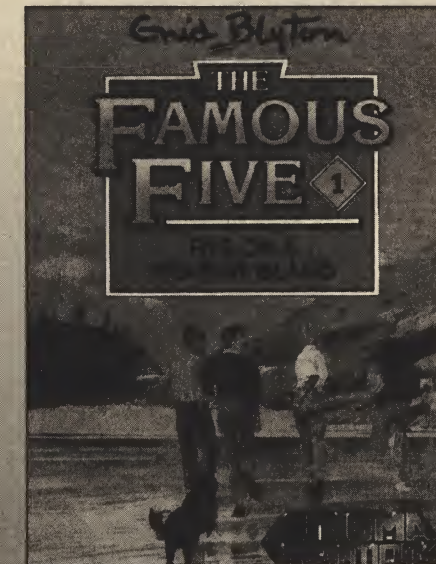
If you want to guarantee your program a place on the most coveted listings pages this side of Venus, there's one simple rule to stick to – make it original! We've had thousands of file copiers, maths programs, graph drawers, etc. Why not try adding a twist? Why not take an old idea and give it a bit of life? Also, try sending in modifications to old Type-Ins. If we get enough we might try starting a regular feature of updates for popular programs.

Finally, don't worry about listings being to short. If your program does the job and is still incredibly short, so much the better.

Famous Five!

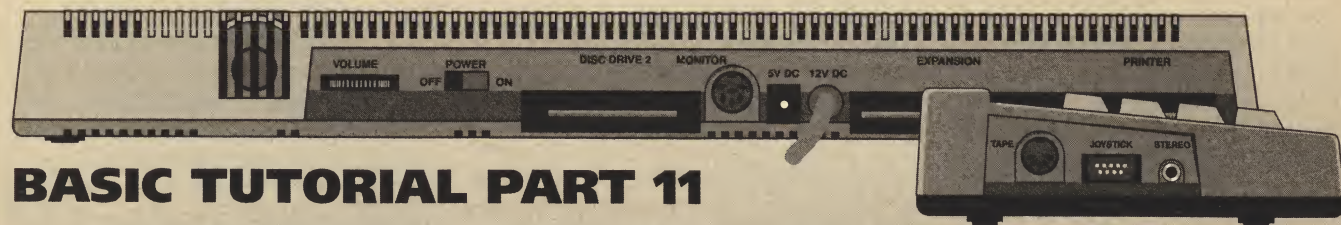
That's what we're offering: five minutes of glorious fame, and masses of cash (well, your name in print and twenty quid, anyway...). So if you're a brilliant BASIC programmer writing code which knocks spots off anything published here – send it in! Your name in lights and big prize money is awaiting. Here's a few dos and don'ts to help you on your way...

- ❖ DO include your name and address with your tape or disk.
- ❖ DO include a sae if you want material returned.
- ❖ DO write your application on the back of a fiver if you want to jump to the head of the queue. (Oll' Behave. Ed)
- ❖ DO include a written description of your program and details of its operation – on-disk doc files won't do!
- ❖ DON'T include instructions saying "...here's my program *Hot-Dots*, the name speaks for



Get in Type-Ins and win an island!

itself...", because it doesn't! If you can't be bothered to describe what it does, I can't be bothered to load it up, okay?



BASIC TUTORIAL PART 11

Last month we examined the password routine in detail and saw that, by combining BASIC constructs such as ON BREAK with simple string checking code we could work up an – albeit minimal and rudimentary – form of password protection. Here it is for those who missed it:

```

5 REM This is a program to count the
characters in a string
10 VALID$="valid"
15 ON BREAK GOSUB 500
20 FOR CNT=1 to 5
30 etc

```

```

500 REM This code checks for a valid code
examination
510 CLS: LOCATE 15,7
520 PRINT "ACCESS ATTEMPT – ENTER
PASSWORD"
530 LOCATE 20,10
540 INPUT "Enter password: "; PASS$
550 IF PASS$="" THEN 540
560 IF ASC(PASS$)<>ASC(VALID$) THEN
CLS:LOCATE 15,15:PRINT "INVALID
PASSWORD": NEW
570 RETURN

```

Of course, the password routine in this program doesn't actually stop anyone from *running* the code – ie by checking that they're valid users, all it does is stop unscrupulous persons from examining what took you hours, days or even weeks of hard work to produce. In other words, it helps to keep out unwanted program crackers, by deleting the code if the 'cracker' doesn't know the password.

BASIC isn't terribly good at providing suitable tools for protection. The password routine given here would probably insult the intelligence of anyone even half familiar with breaking into programs, but it does, at least, serve to illustrate a point. And when you become more



Oh wow! It's a CPC464+! We've got one of these in the office, you know!

conversant with BASIC and the machine in general, you can write more effective protection routines in both BASIC and machine code (the latter offering the only real solution to effective copy and cracking control).

But what if you want to check user validity before allowing them to even use the program let alone examine its workings? Easy. Simply insert something like this new line 15:

```

5 REM This is a program to count the
characters in a string
10 VALID$="valid"
15 GOSUB 500
20 FOR CNT=1 to 5
30 A$=""
40 INPUT "Please type a string"; A$
50 etc

```

Now every time the program is run it will expect the user to hack in a valid password before allowing them to continue operation (and thereby do anything useful). This kind of checking is common on multi-user installations in offices and the like where even operating the computer is limited to the privileged few. If you want to check for valid operation *and* examination rights, use the ON BREAK GOSUB and the new line GOSUB 500, with slightly ammended (separate) routines and two different passwords.

```

5 REM This is a program to count the
characters in a string
10 VALID$="valid": EXAM$="AUTHOR"
15 ON BREAK GOSUB 500
20 GOSUB 600
25 FOR CNT=1 to 5
30 A$=""
40 INPUT "Please type a string"; A$
50 etc

```

Here, two levels of password are in effect allowing operation of the program and containing unauthorised examination. You'll come across this kind of user-interrogation, known collectively as testing and branching, throughout your excursions into BASIC programming. It's a useful and does more than simply provide an answer to a computed equation. Look at the following

```

10 INPUT "Would you like to play a
game":AS
20 IF AS="yes" THEN 100
30 PRINT "OK, bye for now"
40 END
100 INPUT "Which level, (H)ard or (E)asy":AS
etc

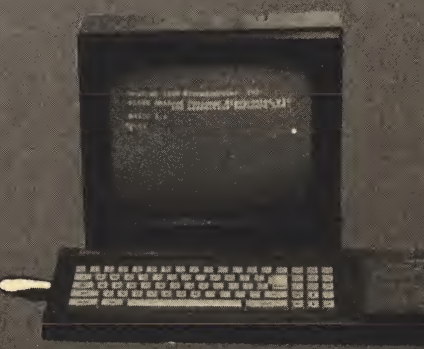
```

When the program is run it interrogates the user as to whether they'd like to play a game or not. If the answer is in the negative, then operation simply falls through to line 30 – a simple goodbye type message, and the program ends. If however, the user wants to play, then operation is restarted from line 100 – the start of the program proper. Line 10 gets a user response, line 20 makes a decision based on that response.

You can also make use of ON GOTO and ON GOSUB when testing and branching by using it to enable the user to select from a range of options, and we'll look at that next month.

So, include plenty of interrogation in your programs – that way, you'll ensure the user is getting exactly what he or she wants from it, and always encode pieces of the program which will be used more than once as subroutines. Unique code can be included in the main part of your program, oft-used stuff as subroutines placed in order at the beginning or end. Try multi-layer protection with one of your programs, and have fun until next month.

Speaking of next month, there'll be some slight changes to Type-Ins. The main difference is that it'll be hosted by Simon Forrester, the newbie here at AA. Also, the tutorial section will be very different. Instead of the usual topics, he'll be dissecting a reader program each month, and taking you through the workings and uses of BASIC that way. There comes a point where you can learn nothing more by reading tutorials, and you've just got to dive straight in, and so that's what we're going to help you to do. Also, from now on, we'd like to see more assembly (machine code) listings in the mag. We've had plenty of tutorials on the subject, so we won't be covering them in that sense, but there's no reason why you shouldn't send your assembly listings in.



And here's a CPC6128. Very useful if you want to use this program as a volume.

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AMSTRAD 464/6128

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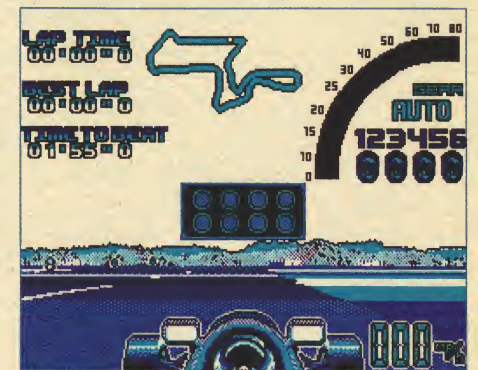
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Power Up

ACTION TEST pages 44-49 • ACTION REPLAY pages 56-57 • CHEAT MODE pages 51-54

Reviewed this month



NIGEL MANSELL'S WORLD CHAMPIONSHIP93%



KIDS PACK 288%
THE POPEYE COLLECTION60%
THE POSTMAN PAT HIT COLLECTION89%
CLASSIC ARCADIA89%

Simon Forrester
We all get the distinct feeling that Simon struck some kind of publicity deal with Nigel Mansell this month, what with his rave review. Why should we think such a strange thing? Well, maybe the new Porsche parked outside AA Towers has got something to do with it. (I wish! Si) Simon spook fact number 528: He's related to Lady Godiva! Yep, the one who rode through Coventry with no clothes on!

Linda Barker
Linda didn't review any games this month, instead she just subbed everybody else's stuff. (It's not true, I did The Popeye Collection! Ed). She's also recently become the proud owner of an orange VW beetle. Stand aside Nigel Mansell, Barker's on the road. Linda spook fact number 834: She can actually stomach (and find) salmon and black pepper flavoured crisps! (I just thought I'd point out that I can't actually drive. Ed) Oh dear!

Jonathan Nash
John, as usual, didn't actually appear in print this month either, but he did a lot of behind-the-scenes work and other such vital what-would-we-do-without-you type stuff. We can't actually tell you what Jonathan's been doing, because a lot of it counts as delicate information! Jonathan spook fact number 395: He's world famous for his collection of Pinky and Perky memorabilia!

The hit parade

1 NEW ZEALAND STORY
Hit Squad

2 DIZZY DOWN THE RAPIDS
CodeMasters

3 DIZZY PRINCE OF YOLKFOLK..... C/Masters

4 STREET FIGHTER Kixx

5 BUBBLE DIZZY C/Masters

6 FUN SCHOOL 2 OVER 8 Hit Squad

7 FUN SCHOOL 2 6-8 Hit Squad

8 LOTUS TURBO CHALLENGE GBH

9 MINI OFFICE Alternative

10 MAGICLAND DIZZY C/Masters

11 FUN SCHOOL 2 U6 Hit Squad

12 CRYSTAL KINGDOM DIZZY C/Masters

13 PIT FIGHTER Hit Squad

14 GOLDEN AXE Tronix

15 BUBBLE BOBBLE Hit Squad

16 SPELLBOUND DIZZY C/Masters

17 TRIVIAL PURSUIT Hit Squad

18 SOCCER DOUBLE E&J

19 SMASH TV Hit Squad

20 TERMINATOR 2 Hit Squad

Action

THE MOOREPLAY RE-RELEASES

RB1290%

TERMINATOR 290%

Wanted

DOOMDARKS REVENGE by Mike Singleton wanted desperately for the Amstrad CPC464 on cassette. Will pay £10 for working boxed tape. Write to: Paul Suttle, 11 Bath Place, Margate, Kent CT9 2BN.

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DOES ANYONE out there have a copy of Poolmaster on tape? **Phone Bill 061-436 1812.**

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School holidays? Off work? Ready to strangle the kids? Don't. Apart from being highly illegal, it's not very nice. **SIMON FORRESTER** thinks that buying them Kids Pack 2 from Alternative is a much better option!

This little bundle contains six games - Count Duckula 2, Fireman Sam, Popeye, Postman Pat 2, Huxley Pig and Bangers & Mash. In case you hadn't noticed, some of these are reviewed elsewhere in this issue, so turn a few pages for those reviews, but as for the rest...

Count Duckula 2

No, don't laugh, it's really on here, and it's abysmal. It's a simple platform game with bland monochrome sprites, hideously slow and jerky movement, an ice-skating main figure (it kinda helps if the legs move roughly in time with Duckula's movement) and pathetic moving platforms that don't so much move as vanish and re-appear elsewhere. *Count Duckula 2* isn't a game, a game is fun. This is like sitting your A-levels again.



Count Duckula 2 is as bad as it looks.



Tea, eh? Just what the postman ordered.



Pigs love toast. It's a fact.

March 1993 AMSTRAD ACTION

KIDS PACK 2

Alternative Software ■ £9.99 cassette ■ 0977 797777

Heaven knows why it was released the first time round, let alone put out again. In fact, it doesn't even deserve a ratings box. (You can't do that, it's got to have a score. Ed) Oh okay, how about zero? (Come on. Ed) Alright, it can have a crap 2%

Fireman Sam

That's *Postman Pat*! No it's not. It's *Fireman Sam*. It may look pretty similar, but there are major differences. The fire engine is faster than *Pat*'s van and there's lots of little subgames to have fun with too. These can vary from platform games to putting out fires, finding skateboards and getting kites off roofs.

Fireman Sam is a slightly more frantic version of *Postman Pat*, with loads more arm work and less time to doze.

The only drawback is the loading system. The main game loads all at once, but the bits which involve putting out fires, climbing up the sides of houses and the like, load separately. Still, the newfangled kids of today should be able to figure it out. That said, don't ever make the mistake of thinking this is just for kids. If a twenty year old reviewer can sit and get addicted to this stuff, it really deserves to be taken seriously!

Huxley Pig

The obvious reaction to this game would be 'Wow!' considering the excellent TV series, and the loading sequence does nothing to quench your enthusiasm. It loads. You press fire. You see the graphics. You move around the house. Scream. 'It's Craaaaap!' Don't despair, things could be worse. They get worse.

The game is based more around a bloke avoiding spiders than Huxley, looking slightly over-done and moving like he's broken both his legs, interacting with his friends. Yet another opportunity for a fun licence has been wasted.

Bangers & Mash

Oh no! It's the one with the theme tune by Chas 'n' Dave! Bangers & Mash, Bangers & Mash, Rabbit Rabbit Rabbit Watcha Rabbit Rabbit Rabbit Watcha Bangers & Mash. Classic musicians. (It took him two hours to work that out. Ed)

Bangers (or is it Mash?) is a rather acrobatic, chimp who has to jump along the jungle platforms and collect fruit (for his mum's pies) and diamonds (for points). At the same time he's

got to stun, and escape from, the baddies.

The graphics are reminiscent of an enlarged *Rick Dangerous* and the sound is limited to appropriate spot effects and a nice meandering little tune whenever a ghost or witch is near.

Death, though inevitable, is especially irritating in *B & M*, as it comes in the most unexpected forms. A witch may fly up directly underneath you, and you'll die. Or maybe you'll jump and the screen will scroll upwards, you'll hit a previously unseen ghost, and you'll die. Failing that, you'll be standing on a platform, a poisonous plant will grow where you're standing, and you'll die. Persevere and you'll survive!

Bangers & Mash is definitely one of the better games on this compilation. It's fun to play, challenging, and teasing. Each time you play you do progress a little further, though expect to find toothmarks in your joystick! It can get very frustrating.

By the way, *Postman Pat 2* is reviewed on page 48 and *Popeye* on page 45. Both games have been taken into consideration when awarding an overall mark.

VERDICT

GRAPHICS

You'd have to play it to realize just how nice some of these graphics really are.

88%

SONICS

Sonically restricted, but the whine doesn't grate and a nice tune sets the whole thing off.

78%

GRAB FACTOR

This game will leap out of your CPC, grab you by the ears and scream in your face - it grabs you.

89%

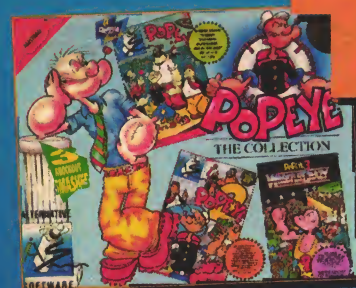
STAYING POWER

It maybe easy, but it's fun, and you'll go back again and again.

88%

This is probably the most beautiful game you'll see for quite a while.

RATING 88%



Alternative ■ 0977 797777 ■ £6.99 cassette

Blistering barnacles and shiver me timbers if it ain't Popeye! **LINDA BARKER** checks her sea legs and wades in...

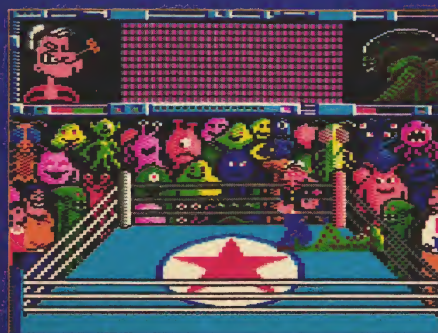
Popeye is a perennial favourite, these Killer Tomatoes may come and go but the world's most famous sailorman lives on in these three games from Alternative. What a shame then, that they're not that good. Actually, that's a bit unfair cos Popeye is a bit of a laugh and *Popeye 2* does have its good bits. Anyway, let's take a look at them one by one, shall we?

Popeye

This is undoubtedly the best of the bunch - it's big, it's blocky and it's a bit beau! The sprites are massive and dead colourful yet, despite their bulk, they manage to move with ease. You play the part of our Pops and you have to collect enough hearts to convince the fickle Olive that you really love her. If you don't... well, she might just run off with that brute Bluto.

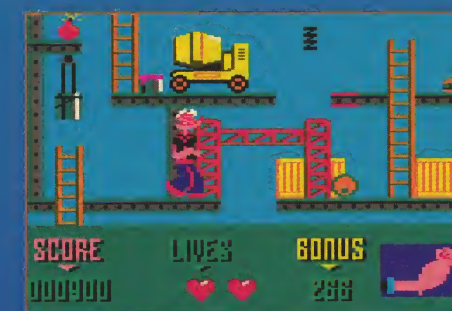
Popeye is kind of 3D, it's difficult to explain but you can take refuge in doorways and window alcoves. Y'see, even though they look exactly like the rest of the scenery, they are actually set back from the rest. As well as being very clever, this is also very useful and is therefore a very good thing. So whenever Bluto comes blundering towards you, or a vicious vulture vrooms straight for your jugular - find a doorway! Ah, talking of doorways, you need to collect keys too as these give you access to other areas of the game.

As for the baddies, they seem to have absolutely no connection with the game, or with each other - apart from the fact that they all knock you out. I mean, one minute you're fighting off a witch and the next a floating shark knocks you out! It's mad. It's also quite a laugh.



You've been a swell crowd - I love you all!

The Popeye Collection



What a smart Tonka toy!

Popeye 2

Oh no, that silly sausage Olive has gone and fallen foul of Bluto's burly biceps! He's grabbed her and made a run for it and you've got to save your babe. Lucky ol' Olive, eh? *Popeye 2* is a platform game and it looks lovely. The characters, the platforms, the ladders and the various bits and bobs are all beautifully drawn. It really does look like it's going to be a complete treat to play.

But wouldn't you just know it - appearances are playing that old deceiving trick again. *Popeye 2* plays like a particularly spoilt child losing at Frustration - badly! The little Popeye sprite is wonderful until you actually try moving him. It's at this point that you begin to realise that this isn't going to be the pleasant experience that you were anticipating.

Popeye insists on falling down gaps rather than jumping over them and sometimes refuses to get off the ladders when you want him to. What's more, he has a marked fondness for death. Death comes in many guises but, whatever the means, *Popeye* always falls flat on his back with a rather large pot-belly stuck in the air. This confuses me. *Popeye*, standing upright, looks like rather a thin little chap - where does this belly come from? Oh well, pot-belly or no pot-belly - it's still not a very good game.



He'll never fit in that little box!



I thought carrots made you yellow!

Popeye 3

Popeye 3 isn't very good at all because the basic concept behind *Popeye 3* is crap. It really does seem as if Alternative thought they should get in on the wrestling thang, and quickly. So they came up with the idea of some alien fiends called KRAGGS kidnapping *Popeye* and forcing him to save the earth by, erm, wrestling. The gameplay was tied to this conceptual plot and it really shows. The main sprites are murky and undefined and the gameplay is simply dull. *Popeye 3* doesn't work as a wrestling game. You could have fun with it, but not for very long.

VERDICT

GRAPHICS

Popeye 1 and *2* look pretty darn good. Both are pretty darn good, *Popeye 3* has smart aliens.

85%

SONICS

We've got the *Popeye* theme tune and various blips and bops. Good, but not great.

70%

GRAB FACTOR

These games are easy to grasp and quite easy to settle down with - but for how long?

70%

STAYING POWER

You'll play *Popeye* for ages, *Popeye 2* for a while and *Popeye 3* is only for serious wrestling fans.

50%

Popeye is the only game of the three that you should own. The other two are okay, but nothing special at all.

RATING 60%



Nigel Mansell's World Championship

Gremlin ■ 0742 753423 ■ £15.99 disk

The true British classics, eh? Monty Python, Carry On films, Gazza and now, says **SIMON FORRESTER**, Nigel Mansell (and his fairly natty set of wheels)...

Okay, so Gazza is a bit of an idiot, and Carry On films aren't exactly tasteful, but Monty Python and Nige make us all stand proud. We at AA towers awaited the CPC version of *Mansell* with baited breath, hoping that it would measure up to what we'd seen on other formats.

When you first run *Mansell*, you'll see a Gremlin logo, and think 'Hmm... that's pretty'. If this is the case, the odds are you'll probably spit your teeth out once the main game gets going. You're



What a logo! What a world! Have you ever seen anything so absolutely gorgeous?

greeted with some of the most beautiful graphics ever to grace the CPC. Forget demos – they're all the same anyway. Just spend a while playing *Mansell* to find out what your machine can really do with some decent software.

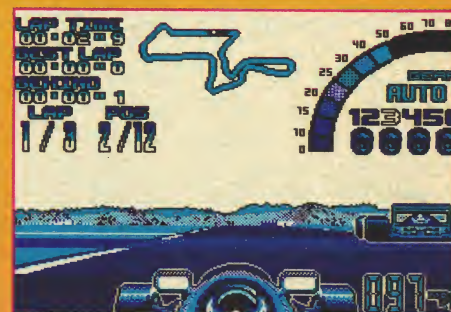
Possible Downers

DISK FLIPPING

So, you've loaded the game and you want to get burning. That's all very well, but with a game this size, it would have been impossible to fit it on to one side of a disk. This does have quite an unfortunate effect – you'll have to do a lot of side-swapping throughout the various sequences in the game. This isn't too much of a hindrance, but there seems to have been very little planning as to what section goes where. For example, you'll sometimes find yourself swapping to the other side just to display the leaderboard, and then swapping back again. It's hardly a major flaw, but it could mar your enjoyment slightly.

CASSETTES?

Now, for all you 464 owners who are slightly miffed at missing out on such a great game, you still have a chance. Gremlin aren't sure whether a cassette version will be released, but there's an outside chance. We must stress the word outside here, as the game wouldn't really lend itself to a huge multiloader. However, no doubt thousands of 464 owners will give Gremlin untold grief until they release a tape version that, due to the nature of the game, would be abysmal. You'd spend most of your time rewinding cassettes, screaming at tape loaders, and getting annoyed with tape counters. Sorry and everything!



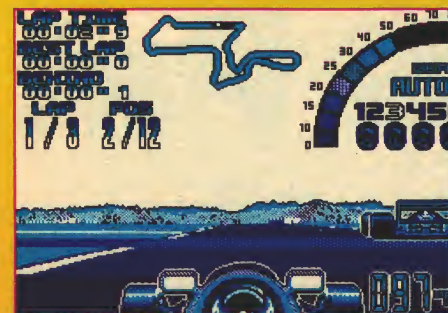
It's a very blue kind if game is Nigel Mansell's World Championship.

We've all heard this kind of slobbering rant several times before, and we all know that beautiful sounds and graphics do not a stunning game make. So it's time to prise open the box and check under the hood, so to speak.

Nigel Mansell's World Championship is a, erm, racing game. Basically. (We gathered that. Ed). Okay, right – you, as Nigel Mansell, burn round as many courses as you can and get to be the world champion a lot. If this sounds a bit limiting, don't worry – it's not. You work your way round the world, with plenty of different tracks, varying weather conditions (which you must accommodate by modifying your car), and



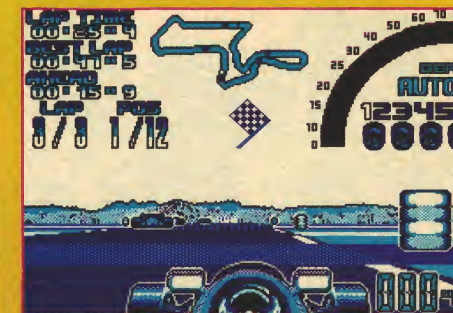
Some lovely huge graphics on the joystick-controlled main menu screen.



It's like a busy shopping day in Bath city centre minus the gawping grannies.



A nice open stretch and a chance to get some speed up, ready to fly off a corner!



That flag at the top means you're on your last lap of the circuit.



I wonder who sponsored this license then? Was it Ford? How about Fiat? Ferrari? Lotus? Honda? Or maybe Renault...

various opponents. In each race, you must first qualify to decide your position on the grid. The qualifying race usually consists of two to three laps. After that, you'll be entered in the 'real' race, where twelve of the best drivers in your field are waiting to destroy and humiliate you. After the race comes the award ceremony, complete with a podium (no champagne though), and a chance to view the leaderboard to see just where you are in the big scheme of things.

If you're not exactly God's gift to drivers, you have the option to go to driving school, which involves whizzing round the track a few times in order to get the hang of the game (a nice idea), and check out the competition.

It's weird. The only way to describe it is that it's as if someone really loved this game and spent all their time working on it until there was absolutely nothing more they could possibly add. When you want to modify your car to handle varying weather conditions, etc, there's this lovely sideways view of the car, and any alteration you select is played out via an animated sequence. At the beginning of the whole game, you are presented with a spinning globe, stopping at your current location. The options menu has some of the most scrumptious



A gorgeous animated sequence accompanies any changes you make to your car.

icons you're ever likely to see, and all the menus throughout the game are joystick controlled and beautifully presented. (By Jove, I think he rather likes it. Ed)

Another thing you'll notice about *Mansell* is that it runs at incredible speeds. Granted, the screen update is slow, but this doesn't seem to impair the game play, as it seems to create the impression that your car's going really fast. I suppose that what I'm trying to say is that it isn't at all flickery in the conventional sense.

There are varying difficulty levels and the easier ones are quite unbelievably, erm, easy. Once you've been on one practise run, you'll be able to handle the car with no problems, and you'll probably find yourself well ahead of the other drivers whether you started in pole position or not. But don't for a minute go thinking that this detracts from the gameplay, because it doesn't! We all know just how irritating it is to play a racing game, make a slight slip, and know

that no matter what you do in the next few laps, you've lost and won't qualify for the main event. It makes a nice change to actually play a game where you stand at least a fighting chance of progressing. Still, even on the easier levels there are a few challenges. Overtaking, for example, is very difficult, as *Mansell* didn't seem to be at the front of the queue when they handed out track width.

And of course, once you've got the hang of things, you can try out the harder levels.

So what separates this game from the average driving game, such as *Crazy Cars III* last month? Well, the emphasis in *CC3* is on money. That's all very well, but *Mansell* allows you to explore all the lovely things you can do to your car without worrying about cash. It also lets you advance around the world freely, as your progress depends on your skill rather than your



You can select various courses around the world with this spinning globe.



I was wondering how I'd survive without my daily dose of Nige... Thank heavens for Gremlin Graphics!

luck at betting. Also, you're racing against a more logical opposition, as opposed to cars that just appear out of nowhere. When you overtake the pack, you don't have to dodge cars, just stay in the lead (unless you lap them – ahem).

Flashy bits aside, *Mansell* is a very enjoyable game. Of course, if you don't like racing games, then don't bother, but if you do then this is most definitely one of the best there is.

If, however, you're not into this kind of thing, don't worry, because neither was a certain staff writer before seeing probably the best racing game released to date.

VERDICT

GRAPHICS

You have to play it to realize just how wonderful these graphics really are. Buy it!

97%

SONICS

Sonically restricted, but the whine doesn't grate and a nice tune starts the whole thing off.

86%

GRAB FACTOR

This game will leap out of your CPC, grab you by the ears and scream in your face – it grabs you.

94%

STAYING POWER

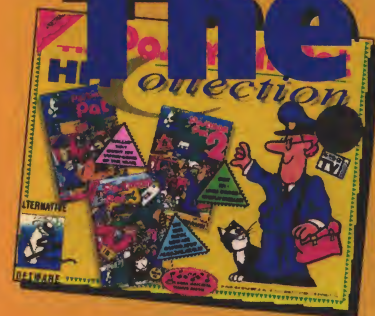
It maybe easy, but it's fun, and you'll go back again and again.

88%

This is probably the most beautiful game you'll see for quite a while.

RATING 93%

The Postman Pat Hit Collection



Alternative Software ■ £6.99 cassette ■ (0977) 797777

You've seen the film. You've read the book and heard the hit rave theme. Now play the games. That's what **SIMON FORRESTER'S** done!

First there was Pat. In Pat 2, the battle continues. Pat 3 sees the final battle against rising postal costs with Pat sporting an Uzi and bandana. (He lives in his own world, y'know. Ed)

Postman Pat

PP sees you on a basic delivery run on a standard sunny day. No aliens, no bad guys, no ramps, jeeps or rocket launchers – just Pat, the cat, and the van. This game is blissfully puerile. The most you will ever have to worry about is getting Miss Hubbard's prescription to the chemist's, and drinking tea with the postmistress. When you're not leading this frantic social life, you're lazily driving around in this funky roadster of a Pat van. If you can't find your way to the doctor's house, don't worry – just keep driving round until you find it. Backwards if you want – nobody cares.

This game is absolutely perfect for its target age group. It doesn't have power-ups, continues, guns, or anything that anyone could possibly object to. It's just plain nice. The one mistake to



Not so much Paperboy as Paperpat!



Burning up the village in Pat 1.

March 1993 **AMSTRAD ACTION**



There's lots of nice locations in PP1.

make would be to restrict this masterpiece to children. Everybody should try to live like this. (Like, wow man!)

If you don't fall in love with this game, something is quite obviously hideously wrong with you.

Postman Pat 2

He's back, he's mean, and he's broken his van. That's why he's on foot, and that's why they haven't bothered with the colour red.

Pat 2 is a lot like Pat 1, but with a little less reliance on the cute factor. In fact, the emphasis seems to be on more lifelike characters, that aren't in the least bit cuddly.

Graphically, it's a Speccy port (or a very close conversion), and is distinctly unappealing. The addition of a radar to help you seems a little tacky, as do the moving counters representing other characters. Stylewise, it's a fast version of *Tir Na Nog*, with the added bonus of being able to tell which way you're facing.

Pat 2 turns a lazy drive round town into a boring trudge round the streets, and the colours give the impression that it's going to rain any minute.

Postman Pat 3

Oh no! Delivery man Dan has broken his leg! Who will deliver all those phone directories? If you



Eek! It's the rozzers! We've been rumbled!



More Speccy port action in PP2.

have a problem, if no-one else can help, and if you can find him, maybe you could hire Pat.

Paperboy fans will love this one. It runs in overhead view, a view that sees Pat screaming down a road chucking phone books at houses. That's not all. There are roadworks and other cars to avoid, as well as the police who, however cuddly, probably have a distinctly unsavoury cell waiting for Pat.

You must deliver a set number of directories to specified houses within a certain time limit. It seems logical that the roads get progressively harder through the game, but this is not all that evident. All in all, it's a nice way to round off the collection.

VERDICT

GRAPHICS

The emphasis here is definitely on cute, but what's wrong with that, eh?

83%

SONICS

There's only so much you can do with van noises, and these games don't exactly stretch the limits!

53%

GRAB FACTOR

Quite frankly, if this stuff doesn't appeal to you, there has to be something wrong!

88%

STAYING POWER

They will be played quite a bit, if not just to complete the various tasks throughout the game.

85%

Never before has the CPC seen such hideously cute releases. We love this stuff!

RATING 89%

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Classic Arcadia Collection

Alternative Software ■ £4.99 cassette ■ (0977) 797777

Question: Do classic old arcade games that were a big hit in the old days need a re-release now? SIMON FORRESTER has a ponder.

Well, the answer to that very question depends both on the games and whether you were around when these games were the 'in thing'.

Classic Arcadia Collection consists of six of the earliest (and some believe the best) games ever seen: *Invaders*, *Axiens*, *Muncher*, *Missile*, *Crazy Er*Bert* (I never did understand why the star was there. Is Er*Bert a swear word, or something?), and *Grebit*. For all those who quietly snigger at games like this whilst loading up *Blasterzombiephaze*, just remember that these games were the predecessors to all the techjunk floating around.

So... The games. Graphically and sonically, these games won't astound you. On the plus side though is the fact that, that from a programmer's point of view, the whole selection is very tightly designed. For anyone who's never played any of these oldies, here they are one by one.

Invaders

This is the standard shoot-em-up (I can't believe I'm explaining *Invaders*). Take away all the



Classic Invaders action - we love it!



What exactly, if anything, is a Pac?

March 1993 AMSTRAD ACTION



Oh no! The Invaders are fighting back!

phazers, smart bombs, thrusters, etc and you're left with something like the screenshot. The block of ships at the top move left and right, gradually getting lower, and your mission is to kill them. Basically.

As a faithful representation of an all-time classic, this has to be worth a second look.

73%

Axiens

In the history of shoot-em-ups, this came next. It involves the same old *Space Invaders* stuff (no doubt something to do with it being a straight conversion of *Galaxians*), but with the invaders bombing down the screen with the intention of severely hurting you. There's enough extras here to make this a darn playable game.

67%

Muncher

You've seen it on the covertape, you've played it to death. Now buy an official version and play that to death as well.

Muncher is nice as a *PacMan* clone but it doesn't really gel. Come to think of it, maybe the original didn't either...

55%

Missile

This one involves an alien race attempting to blow you to smithereens. And, erm, that's it. If you're looking for fast fun and excitement then this game is definitely one to be avoided.

30%

Crazy Er*Bert

This was known as 'The Game That No-One Could Control' and it's just as blimmin' difficult today. The easiest way to describe this game is as an isometric beat-em-up on a mountain. (You have to change the colour of the blocks by jumping up and down on them. Ed)

It's too confusing, and it really isn't much fun. Another duff one, methinks.

47%



Could you run those keys by me again?

Grebit

If you've ever played *Frogger*, then you'll understand *Grebit*. The idea is to guide your frogs across a busy road, and to the safety of a lily pad on the other side.

Frogger is as *Frogger* does, it wasn't all that thrilling then and, well, you can work out the rest yourself.

67%

So, we've seen a bundle of old classics, some good, some bad. But whether a collection such as this is worthy of a re-release is debatable. In the end, it's got to be subjective. Remember though that this stuff started tit all.

VERDICT

GRAPHICS

They're faithful to the originals but, still, they're not exactly impressive.

69%

SONICS

Don't expect miracles here either - the odd beep or rasp is all you'll get out of these.

63%

GRAB FACTOR

As with all the early stuff, their simplicity will definitely grab you. These were here first, remember!

86%

STAYING POWER

The fascination will wear off, but not before you've played some of them to death.

75%

A nice package giving faithful covers of the old classics. Worthwhile for posterity, and fun

RATING 80%

Cheat Mode

That Phil Howard, eh? What a chap and no mistake. Once you've worked your way through his cheats special (back on page 12) get going with this little lot. Does this man never rest? Save Phil a bit of work by sending in YOUR maps, cheats, tips and pokes to Cheat Mode, Amstrad Action, Beauford Court, 30 Monmouth Street, Bath, Avon BA1 2BW.

PÖKs for CodeMasters compilations are this month's flavour to be savoured. Dug up from past issues and requested by lots (and lots) of people are the following tape cheats. Most of the *Quattro* cheats will work on the individual games if you have them.

The Quattro compilations...

Adventure, *Arcade*, *Cartoon*, *Combat*, *Firepower*, *Power*, *Racer*, and *Superhits*. Dunstable's Andy Price has, in his time, cheated on games almost too numerous to mention, here are some.

Quattro Adventure:

Dizzy - Lives
Vampire - Lives
Super Robin Hood - Invulnerability
Ghost Hunters - Start room/energy



Withstand the arrows of outrageous fortune with a few well-placed numbers!

HAGF 1.'Quattro·Adventure
EADF 2.'by·ANDY·PRICE
AAMH 5.'
FAJC 10·DATA·2a,38,bd,22,2d
FAJI 20·DATA·be,ac,ad,21,37
FAED 30·DATA·bd,3e,c3,77,23
EAEN 40·DATA·3e,21,77,23,3e
EALM 50·DATA·be,77,21,40,00
EAOO 60·DATA·e3,11,00,bb,00
EAKP 70·DATA·c3,4a,3a,41,50
FAID 80·DATA·af,32,3a,95,3e
EAEH 90·DATA·04,32,25,89,00
FAKF 100·DATA·21,3d,be,22,4f
FAIL 110·DATA·bf,c3,00,bf,c3
FAAA 120·DATA·88,13,21,23,be
FAED 130·DATA·22,e3,39,3e,c3
EAOM 140·DATA·32,e2,39,21,40
FAAC 150·DATA·00,11,00,bb,e5
FANJ 160·DATA·eb,e5,c3,b7,39
FAJJ 170·DATA·dd,e5,dd,21,91
FAGC 180·DATA·01,3e,d0,dd,77
FAOG 190·DATA·00,3e,6f,dd,77
FACJ 200·DATA·01,3e,cd,dd,77
FANI 210·DATA·02,dd,e1,f1,f3
FAFD 220·DATA·c9,3e,34,32,5b
EAGP 230·DATA·2d,18,e5,00,00
EABP 240·DATA·06,05,11,00,ac
FAKC 250·DATA·21,28,be,cd,77
GAFc 260·DATA·bc,eb,cd,83,bc
FAGM 270·DATA·23,e5,cd,7a,bc
FAAD 280·DATA·21,1b,be,22,92
FAMM 290·DATA·ac,c9,3e,ee,32
FABA 300·DATA·22,61,3e,c9,32
FAOD 310·DATA·07,6c,c3,d0,76
FAMA 320·DATA·52,4f,42,49,4e
EAP0 330·DATA·06,0d,11,00,c0
FAKC 340·DATA·21,28,be,cd,77
GAFc 350·DATA·bc,eb,cd,83,bc
FAGM 360·DATA·23,e5,cd,7a,bc
FAAJ 370·DATA·21,1b,be,22,fe
FAPG 380·DATA·a4,c9,3e,c9,32
FAFD 390·DATA·cf,61,3e,02,32
FAAD 400·DATA·ca,61,c3,73,61
EAB0 410·DATA·47,48,4f,53,54
FAOA 420·DATA·2d,48,55,4e,54
DABI 430·DATA·45,52,53
HAPA 440·RESTORE·10:start=&BEO0
GAOP 450·finish=&BEO0:GOSUB·770
FAHP 460·MODE·1:INX·1,15:INX·0,0
FAFC 470·PRINT"1·Dizzy"
FABO 480·PRINT"2·Vampire"
IAMB 490·PRINT"3·Ghost·Hunters"
IALN 500·PRINT"4·Super·Robin·Hood"
IABC 510·PRINT:INPUT"Number":",no
GAPP 520·ON·no·GOSUB·530,600,650,700
HAJB 530·RESTORE·80:start=&BEO0
HAHA 540·finish=&BEO0:GOSUB·770
JADK 550·CLS:PRINT"Inf·lives·active"
JAMK 560·INPUT"Speed·of·Dizzy·(1..10)",s
HADE 570·POKE·&BEO0,s:POKE·&BEO0,&CF
HAHE 580·POKE·&BEO0,&2B:MEMORY·&2FFF
GAPN 590·LOAD"dizzy":CALL·&BEO0
HAND 600·RESTORE·100:start=&BEO0
HABA 610·finish=&BEO0:GOSUB·770
JA0B 620·CLS:PRINT"Inf·lives·"
IAOC 630·MEMORY·&2FFF:LOAD"vampire"
DAGB 640·CALL·&BEO0
HAHE 650·RESTORE·330:start=&BEO0
HAGA 660·finish=&BEO0:GOSUB·770

JALO 670·CLS:PRINT"Invulnerability"
LAPC 680·PRINT:INPUT"Enter·start·room";r
GAPD 690·POKE·&BEO0,r:CALL·&BEO0
HADE 700·RESTORE·240:start=&BEO0
HAAB 710·finish=&BEO0:GOSUB·770
MADI 720·CLS:PRINT"Invulnerability·active"
JAMK 730·PRINT:INPUT"Faster·Robin";y\$
GAPP 740·IF·LEFT\$(y\$,1)="n"·THEN·760
DAII 750·POKE·&BEO0,0
DAGA 760·CALL·&BEO0
HAPP 770·FOR·a=start·TO·finish
FAJK 780·READ·b:b=VAL("&"&b\$)
GABJ 790·POKE·a,b:NEXT·RETURN

Quattro Arcade:

Advanced Pinball - Balls
Fruit Machine - Credits
3D Starfighter - Invulnerability
Grand Prix Sim - Track

Endless cost-effective arcade fun!



KACJ 1.'Quattro·Arcade·Cheat·System
EADF 2.'by·ANDY·PRICE
AAKH 3.'
FAAE 10·FOR·x=&BEO0·TO·&BEO4
GALJ 20·READ·cd\$:cd=VAL("&"&cd\$)
EAGL 30·POKE·x,cd:NEXT
JAJK 40·MODE·1:PEN·2:PRINT"Choose·Game:"
IAOE 50·PEN·1:PRINT"1·Pinball·Sim"
HABP 60·PRINT"2·3D·Starfighter"
GAKN 70·PRINT"3·Grand·Prix·2"
JADA 80·PRINT"4·Fruit·Machine·Sim"
HABI 90·PRINT:INPUT"Number:":",n
GABH 100·ON·n·GOSUB·120,140,160,200
CANH 110·GOTO·390
FALP 120·RESTORE·330:GOSUB·220
CAEJ 130·RETURN
GABA 140·RESTORE·370:GOSUB·220
CAGJ 150·RETURN
KANF 160·PRINT:PRINT"Grand·Prix·cheat:"
KAPI 170·PRINT:PRINT"Re·define·name·as:"
HACJ 180·PEN·3:PRINT"·INTEGRA":PEN·1

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BADP 190·RUN""
 FAMP 200·RESTORE·350:GOSUB·220
 CADJ 210·RETURN
 FAII 220·FOR·x=&BE25·TO·&BE2B
 GABP 230·READ·a\$:POKE·x,VAL("&"a\$)
 EAPA 240·NEXT·RETURN
 FAMA 250·DATA·ED,5B,38,BD,E5
 FADA 260·DATA·AC,E1,ED,53,2D
 FABA 270·DATA·BE,AD,11,37,BD
 EABN 280·DATA·3E,C3,12,13,3E
 EACN 290·DATA·25,12,3E,BE,13
 EAPJ 300·DATA·12,21,40,00,E3
 EAKL 310·DATA·11,00,BB,00,C3
 EACL 320·DATA·4A,3A,41,50,00
 EAOO 330·DATA·AF,32,15,04,EE
 EAGI 340·DATA·41,00,00,00,00
 EALP 350·DATA·AF,32,3F,73,EE
 EAIL 360·DATA·50,00,00,00,00
 EAGO 370·DATA·AF,32,3A,7F,32
 EAIK 380·DATA·15,7F,00,00,00
 EAIA 390·POKE·&BE2C,&CF
 FAFH 400·MEMORY·&2FFF:LOAD""
 CAOP 410·CALL·&BE00

Quattro Cartoon:

Frankenstein Jnr – No ghosts
 Wizard Willy – Lives
 Olli and Lissa 3 – No ghosts
 Little Puff – Invulnerability

GAOH 1'·Quattro·Cartoon
 EADF 2'·by·ANDY·PRICE
 AAKH 3'·
 HAGI 4'·Frank·Jnr:·No·Ghosts
 NABB 5'·Wizard·Willy:·Inf·lives·&·Firepower
 LAHF 6'·Little·Puff:·Invulnerability
 IABM 7'·.....and·move·location
 IAFK 8'·Ollie·&·Lissa:·No·Ghosts
 AAI 9'·
 FANI 10·DATA·2a,38,bd,e5,ac
 FAEI 20·DATA·e1,22,2c,be,aa
 FALF 30·DATA·ab,21,37,bd,3e
 EAEN 40·DATA·c3,77,23,3e,23
 FAPA 50·DATA·77,3e,be,23,77
 EABJ 60·DATA·21,40,00,e3,11
 FAEF 70·DATA·00,bb,c3,4a,3a
 FAGG 80·DATA·af,32,05,5d,ee
 FAAD 90·DATA·41,ee,50,cf,00
 FAEF 100·DATA·af,32,1c,1c,32
 FAFB 110·DATA·4c,1d,00,cf,00
 EAPN 120·DATA·00,00,0a,00,0a
 FABG 130·DATA·21,de,7f,22,4b
 EAEN 140·DATA·80,21,18,8e,22
 EAPJ 150·DATA·70,80,18,22,21
 FABJ 160·DATA·ec,7f,11,00,fc
 FAPE 170·DATA·01,0a,00,ed,b0
 FAOM 180·DATA·c3,4d,fc,3e,c9
 EAFN 190·DATA·32,60,63,01,8d
 EABN 200·DATA·7f,18,69,00,00
 FADI 210·FOR·x=&BE00·TO·&BE2E
 FALJ 220·READ·a\$:a=VAL("&"a\$)
 GACD 230·POKE·x,a:NEXT·MODE·1
 FAHE 240·MEMORY·&2FFF:PEN·1
 HAPA 250·PRINT"1.·Little·Puff"
 HAEJ 260·PRINT"2.·Wizard·Willy"
 JAGC 270·PRINT"3.·Frankenstein·Jnr"
 IAI 280·PRINT"4.·Ollie·&·Lissa·III"
 HAIN 290·PRINT:INPUT"Option";n
 GALD 300·ON·n·GOTO·320,390,430,440

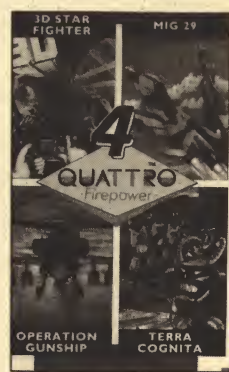
FAIK 310·RESTORE:CLEAR:RUN
 JAND 320·CLS:PRINT"Keypress·Cheat:"
 KABA 330·PRINT:PRINT"Press·Keys·";:PEN·2
 NACH 340·PRINT"D·R·A·G·O·N";:PEN·1:PRINT"all
 together"
 MAGF 350·PEN·1:PRINT"Gives·Invulnerability"
 LAPP 360·PRINT"Also,·Press·SHIFT·Plus·Arrow"
 KAKB 370·PRINT"Keys·To·Move·Location"
 BAEP 380·RUN""
 DABJ 390·RESTORE·100
 FAJI 400·FOR·x=&BE23·TO·&BE2E
 GABP 410·READ·a\$:POKE·x,VAL("&"a\$)
 HAAH 420·NEXT:LOAD"wiz":CALL·&BE00
 IAKB 430·LOAD"frank·jnr":CALL·&BE00
 DAAJ 440·RESTORE·130
 FANI 450·FOR·x=&7FD0·TO·&7FF5
 GACP 460·READ·a\$:POKE·x,VAL("&"a\$)
 IAHB 470·NEXT:LOAD"candlelight"
 DAPA 480·CALL·&7FD0

Quattro Combat:

Arcade Flight – Lives
 Death Stalker – No ghosts
 SAS Combat Sim – Lives

KAIK 1'·Quattro·Combat·Cheat·System
 EADF 2'·by·ANDY·PRICE
 JAIA 3'·*·use·Typewriter·codes·*
 AALH 4'·
 FAND 10·FOR·x=&BE00·TO·&BE21
 FAGJ 20·READ·p\$:p=VAL("&"p\$)
 EAPF 30·POKE·x,p:NEXT
 IAKD 40·MODE·1:PRINT"Choose·Game:"
 HABL 50·PRINT"1.·Death·Stalker"
 HANH 60·PRINT"2.·SAS·Combat·Sim"
 IAAO 70·PRINT"3.·Arcade·Flight·Sim"
 HAAI 80·PRINT:INPUT"Number:";n
 FAII 90·ON·n·GOSUB·100,180,200
 FAOI 91·RESTORE·440:GOTO·500
 FAOP 100·RESTORE·400:GOSUB·290
 IAPH 110·INPUT"Ground·ghouls";y\$
 GAMP 120·IF·LEFT\$(y\$,1)="y"·THEN·160
 JAHC 130·INPUT"Fireball·demons";y\$
 GAPP 140·IF·LEFT\$(y\$,1)="y"·THEN·170
 CAGJ 150·RETURN
 GAIA 160·POKE·&BE24,&3C:GOTO·130
 GABA 170·POKE·&BE29,&3C:RETURN
 GANA 180·RESTORE·380:GOSUB·290
 CAKJ 190·RETURN
 GABA 200·RESTORE·420:GOSUB·290
 JADF 210·CLS:PRINT"Infinite·lives:"
 GAAC 240·INPUT"Player·1";y\$
 HAPA 245·IF·LEFT\$(y\$,1)="y"·THEN·260
 DACO 250·POKE·&BE24,&3D
 GADC 260·INPUT"Player·2";y\$
 HAJA 265·IF·LEFT\$(y\$,1)="y"·THEN·280
 DAJO 270·POKE·&BE29,&3D
 CAKJ 280·RETURN
 FAAJ 290·FOR·x=&BE23·TO·&BE2E
 HANA 300·READ·p\$:POKE·x,VAL("&"p\$)
 EANA 310·NEXT:RETURN
 FAHB 320·DATA·ED,5B,38,BD,EB
 FAAH 330·DATA·22,34,BE,11,37,BD
 FANI 340·DATA·EB,3E,C3,77,23,3E
 FADH 350·DATA·23,77,3E,BE,23,77
 FAAD 360·DATA·21,40,00,E3,11,00
 FANH 370·DATA·BB,00,C3,4A,3A,91
 FAAL 380·DATA·AF,32,AA,49,3E,FF
 FAOE 390·DATA·32,86,32,32,8B,32

FALF 400·DATA·3E,00,32,1C,17,3E
 FAPD 410·DATA·00,32,BD,18,00,00
 FALG 420·DATA·3E,00,32,8A,89,3E
 FAMD 430·DATA·00,32,4E,89,00,00
 FABE 440·DATA·00,41,50,00,CF,00
 FANI 500·FOR·x=&BE2F·TO·&BE34
 HAAB 510·READ·p\$:POKE·x,VAL("&"p\$)
 GAAL 520·NEXT:MEMORY·&3000:LOAD""
 DABA 530·CALL·&BE00



Quattro Firepower:

Mig 29 Fighter – Lives
 Operation Gunship – Invulnerability
 3D Starfighter – Invulnerability

Zap 'em out of the skies and remain invincible!

HALF 1'·Quattro·Firepower
 EADF 2'·by·ANDY·PRICE
 AAKH 3'·
 KAFM 10·MODE·1:PRINT"Quattro·Firepower"
 HAJL 20·PRINT:TAB(13)"by·ANDY·PRICE"
 KA0B 30·PRINT"1.·Mig·29·Soviet·fighter"
 JAEI 40·PRINT"2.·Operation·Gunship"
 HAPJ 50·PRINT"3.·3D·Starfighter"
 HAPJ 60·PRINT:INPUT"Number";jp
 FACL 70·ON·jp·GOTO·340,100,560
 CACE 80·GOTO·10
 AAL 90'·
 HAHK 100'·Operation·Gunship
 HAML 110'·Quattro·Firepower
 AAKN 120'·
 EAFL 130'·by·ANDY·PRICE
 AAMN 140'·
 DABJ 150·RESTORE·160
 GAFI 160·DATA·2a,38,bd,e5,ac,e1
 FADP 170·DATA·22,35,be,ad,21,37
 GAOC 180·DATA·bd,3e,c3,77,23,3e
 FAFN 190·DATA·23,77,3e,be,23,77
 FAJE 200·DATA·21,40,00,e3,11,00
 GADH 210·DATA·bb,00,c3,4a,3a,af
 GADA 220·DATA·32,9b,8e,32,5f,8d
 FAJJ 230·DATA·32,53,8d,32,b1,85
 FAPO 240·DATA·3e,41,3e,50,cf,00
 FANA 250·DATA·00,00,00,00,00,00
 FAKH 260·FOR·x=&BE00·TO·&BE36
 FAAK 270·READ·a\$:a=VAL("&"a\$)
 HAGP 280·POKE·x,a:chk=chk+a:NEXT
 GAED 290·IF·chk(&1546)·THEN·320
 FAEH 300·MEMORY·&2FFF:LOAD""
 CANP 310·CALL·&BE00
 IAGN 320·PRINT"Error·in·poke":STOP
 AAMN 330'·
 IAJC 340'·Mig·29·Soviet·Fighter
 HACM 350'·Quattro·Firepower
 AAO 360'·
 EALL 370'·by·ANDY·PRICE
 AAO 380'·
 DAEJ 390·RESTORE·400
 GACI 400·DATA·2a,38,bd,e5,ac,e1
 GAMB 410·DATA·22,2b,be,ad,21,37
 GALC 420·DATA·bd,3e,c3,77,23,3e
 FACN 430·DATA·23,77,3e,be,23,77

FAPE 440·DATA·21,40,00,e3,11,00
 GAJH 450·DATA·bb,00,c3,4a,3a,af
 FAHM 460·DATA·32,c0,08,32,f1,0c
 FAKH 470·DATA·cf,00,00,00,00,00
 FAKI 480·FOR·x=&BE00·TO·&BE2C
 FAEX 490·READ·a\$:a=VAL("&"a\$)
 HABP 500·POKE·x,a:chk=chk+a:NEXT
 GAPD 510·IF·chk(&116D)·THEN·540·
 FAIH 520·MEMORY·&2FFF:LOAD""
 DABA 530·CALL·&BE00
 IAKN 540·PRINT"Error·in·poke":STOP
 AAO 550'·
 GAMB 560'·3D·Star·Fighter
 HAGM 570'·Quattro·Firepower
 AAO 580'·
 EAPL 590'·by·ANDY·PRICE
 AANN 600'·
 DAGJ 610·RESTORE·650
 FAFI 620·FOR·x=&BE00·TO·&BE2B
 GACN 630·READ·cd\$:cd=VAL("&"cd\$)
 EA0O 640·POKE·x,cd:NEXT
 FAAB 650·DATA·ED,5B,38,BD,E5
 FAHA 660·DATA·AC,E1,ED,53,2D
 FAFA 670·DATA·BE,AD,11,37,BD
 EAFN 680·DATA·3E,C3,12,13,3E
 EAGN 690·DATA·25,12,3E,BE,13
 EADK 700·DATA·12,21,40,00,E3
 EAOL 710·DATA·11,00,BB,00,C3
 EAGL 720·DATA·4A,3A,41,50,00
 EAGO 730·DATA·AF,32,3A,7F,32
 EAIK 740·DATA·15,7F,00,00,00
 EAIA 750·POKE·&BE2C,&CF
 FAOH 760·MEMORY·&2FFF:LOAD""
 DAHA 770·CALL·&BE00

Quattro Power:

Motorcross Sim – Bikes
 Twin Turbo V8 – Time/Lives
 Pro Powerboat – Lives
 ATV Sim – Time

Stay ahead simply by tapping in this list.



FAFL 1'·Quattro·Power
 EADF 2'·by·ANDY·PRICE
 AAMH 5'·
 FAOL 10·MODE·1:INK·1,15:INK·0,0
 HAEQ 20·PRINT"1.·Moto·Cross·Sim"
 HAAF 30·PRINT"2.·Twin·Turbo·V8"
 JADC 40·PRINT"3.·Pro·Powerboat·Sim"
 HADK 50·PRINT"4.·ATV·Simulator"
 HAPB 60·PRINT:INPUT"Number";n, no
 GAIF 70·ON·no·GOTO·880,660,320,90
 CACE 80·GOTO·10
 HAAM 90'·ATV·Simulator·cheat
 EACL 100'·by·ANDY·PRICE
 KAPP 110'·Function:·stops·the·clock
 DALI 120·RESTORE·130
 EADJ 130·DATA·21,70,01,11,35
 EALN 140·DATA·04,3E,16,CD,A1
 EAGP 150·DATA·BC,2A,0E,BC,22
 EACP 160·DATA·B5,BE,3E,C3,32
 FAFA 170·DATA·0E,BC,21,9F,BE
 EABP 180·DATA·22,0F,BC,CD,80

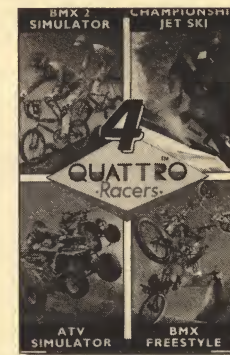
EAMO 190·DATA·01,ES,21,AB,BE
 EALO 200·DATA·22,8E,98,E1,CD
 FAIB 210·DATA·B4,BE,C9,F5,AF
 EANN 220·DATA·32,1E,4C,F1,C3
 EAMX 230·DATA·00,04,CF,00,00
 FAMN 240·FOR·ad=&BE00·TO·&BE6
 FADO 250·READ·x\$:x=VAL("&"x\$)
 GAMP 260·POKE·ad,x:z=z+x:NEXT
 FANE 270·IF·z(&1800)·THEN·300
 HANJ 280·MODE·0:PRINT"Press·PLAY"
 DAMA 290·CALL·&BE00
 HAIG 300·PRINT"DATA·error":STOP
 AALN 310'·
 HAAH 320'·Pro·Powerboat·Sim'
 EANH 330'·by·ANDY·PRICE
 FAKJ 340'·tape·method·1
 AAPN 350'·
 DAHJ 360·RESTORE·370
 FAOB 370·DATA·ED,5B,38,BD,ED
 FAIA 380·DATA·53,3D,BE,AD,3E
 FADA 390·DATA·59,A4,CB,77,AF
 EAPN 400·DATA·21,37,BD,3E,C3
 EACM 410·DATA·77,23,3E,28,77
 EAFN 420·DATA·3E,BE,23,77,21
 EAPJ 430·DATA·40,00,E3,11,00
 EAFQ 440·DATA·BB,00,C3,4A,3A
 EAOM 450·DATA·3E,09,32,2C,88
 EAIL 460·DATA·3E,12,32,31,88
 EAAN 470·DATA·3E,08,32,3C,88
 EAAM 480·DATA·3E,17,32,41,88
 DAIJ 490·DATA·CF,00,00
 FADN 500·FOR·ad=&BE00·TO·&BE3E
 FANJ 510·READ·a\$:a=VAL("&"a\$)
 GAGM 520·y=y+a:POKE·ad,a:NEXT
 FANG 530·IF·y(&168E)·THEN·640
 FAJD 540·MEMORY·&3000:LOAD""
 HAEI 550·INPUT"lives·for·p1";p
 DAJL 560·POKE·&BE33,p
 HAHJ 570·INPUT"lives·for·p2";p
 DAAM 580·POKE·&BE29,p
 HACI 590·INPUT"mines·for·p2";p
 DAFM 600·POKE·&BE2E,p
 HAKH 610·INPUT"mines·for·p1";p
 DALL 620·POKE·&BE38,p
 DACA 630·CALL·&BE00
 IAGE 640·PRINT"Error·in·DATA":STOP
 AAO 650'·
 FAPH 660'·Twin·Turbo·V8
 EAOL 670'·by·ANDY·PRICE
 AAFO 680'·
 DAKJ 690·RESTORE·700
 FADA 700·DATA·2A,38,BD,E5,AC
 EAMO 710·DATA·E1,22,31,BE,AD
 EAO 720·DATA·21,37,BD,3E,C3
 EACM 730·DATA·77,23,3E,23,77
 EAKN 740·DATA·3E,BE,23,77,21
 EAEK 750·DATA·40,00,E3,11,00
 EAKO 760·DATA·BB,00,C3,4A,3A
 EAMN 770·DATA·AF,32,50,65,3E
 FAHA 780·DATA·99,32,EE,1B,EE
 EALF 790·DATA·41,EE,50,CF
 FAID 800·MEMORY·&3000:LOAD""
 FAGH 810·FOR·y=&BE00·TO·&BE30
 FAOM 820·READ·p\$:p=VAL("&"p\$)
 GAKJ 830·x=x+p:POKE·y,p:NEXT
 FAOC 840·IF·x(&14A0)·THEN·860
 DAGA 850·CALL·&BE00
 HADH 860·PRINT"DATA·error":STOP
 AAO 870'·

IAAL 880'·Moto·Cross·Simulator
 EACM 890'·by·ANDY·PRICE
 AAAO 900'·
 DAJJ 910·RESTORE·920
 FAHA 920·DATA·2A,38,BD,E5,AC
 FAEA 930·DATA·E1,22,2F,BE,AD
 EAIQ 940·DATA·21,37,BD,3E,C3
 EAGM 950·DATA·77,23,3E,23,77
 EAON 960·DATA·3E,BE,23,77,21
 EAIK 970·DATA·40,00,E3,11,00
 EA0O 980·DATA·BB,00,C3,4A,3A
 EAMN 990·DATA·AF,32,C7,05,32
 EADM 1000·DATA·2B,0D,00,00,00
 DABD 1010·DATA·00,CF
 FADG 1020·MEMORY·&3000:LOAD""
 FAFL 1030·FOR·y=&BE00·TO·&BE2E
 FAJP 1040·READ·p\$:p=VAL("&"p\$)
 HALG 1050·ch=ch+p:POKE·y,p:NEXT
 GADB 1060·IF·ch(&10A8)·THEN·1080
 DABD 1070·CALL·&BE00
 HAFB 1080·PRINT"error·in·DATA"

Quattro Racer:

BMX Freestyle – Quality
 BMX Sim 2 – Time
 ATV Sim – Time
 Championship Jet Ski – Course

Race to the front and stay there whilst others look on in awe!



GAIA 1'·Quattro·Racers
 EADF 2'·by·ANDY·PRICE
 AAKH 3'·
 HAOC 4'·ATV·Sim:·stop·clock
 GAPL 5'·BMX·2:·clock·speed
 NAGC 6'·BMX·Freestyle:·nefarious·oddities!
 KAAL 7'·Champ·Jet·Ski:·choose·course
 AAPH 8'·
 EAPI 10·DATA·21,30,6c,11,30
 FAFC 20·DATA·ac,01,91,01,ed
 EAKP 30·DATA·b0,21,94,be,22
 FALI 40·DATA·6f,ac,c3,30,5b
 EALM 50·DATA·3e,01,32,43,5b
 FAAA 60·DATA·c3,40,00,4f,6f
 FAJG 70·DATA·4f,4f,b8,a8,a0
 FAEJ 80·DATA·2a,38,bd,e5,ac
 FABJ 90·DATA·e1,22,2f,be,ad
 FAMF 100·DATA·21,37,bd,3e,c3
 EAKN 110·DATA·77,23,3e,23,77
 FACD 120·DATA·3e,be,23,77,21
 EAML 130·DATA·40,00,e3,11,00
 FACI 140·DATA·bb,00,c3,4a,3a
 FAAA 150·DATA·3e,c3,32,10,66
 EAPP 160·DATA·21,31,be,22,11
 FAPC 170·DATA·66,cf,00,00,3e
 FAKA 180·DATA·02,32,f9,65,c3
 FAIN 190·DATA·13,66,ff,ff,ff
 EABJ 200·DATA·21,70,01,11,35
 EAJN 210·DATA·04,3E,16,CD,A1
 EAEP 220·DATA·BC,2A,0E,BC,22
 EAAP 230·DATA·B5,BE,3E,C3,32
 FADA 240·DATA·0E,BC,21,9F,BE
 EAPO 250·DATA·22,0F,BC,CD,80
 EAKO 260·DATA·01,E5,21,AB,BE

There may only be two games in this month's Action Replay, but they're two jolly good ones. So good in fact, that we've put one on each page!

RBI 2 Baseball

The Hit Squad ■ 061 832 6633 ■ £3.99

That incredibly sporty jock (ahem) **SIMON FORRESTER** picks up his bat and steps on to the diamond...

Oh scridly dee. La tum te tum. What? A baseball game? What's baseball? Oh, you mean rounders? So what's the difference? A diamond? Where does that come into it?

(Ooh Lordy Simon, you are so thick. Baseball differs from rounders in that baseball is played on a diamond shaped pitch, and only has four



This is what the whole screen looks like. It's pretty spiffy, isn't it?

How do you play it?

The players come in two teams. This guy (the pitcher) stands on this hill and throws a ball at a bloke (batter) holding a big stick that's fat at one end, and thin at the other. The bloke hits the ball with the stick, and then runs around the diamond.

Whilst he's hitting the ball, some of his friends are running round the diamond already. They have to run when he runs, and when they get all the way around, they score a point. If, however, one of the small army of men standing miles away on the field (did we mention them?) manages to get the ball back to a point on the diamond whilst a bloke is

running towards it, said bloke goes home and cries a lot. If, however, the people on the field catches the ball, then the batter is out straight away, and everybody starts shouting and hugging each other.

Now... If the batter is so crap that he can't hit any of three balls that are thrown at him (not all at once, obviously), he's also out straight away, as these balls are all caught by a bloke standing behind him who's dressed like the Michelin Man.

And those are the rules, chaps. Happy hitting! Last one home smells like a very old baseball mitt!



Right, this is either Walton or Ballard. One's a nice boy and one's a sci-fi freak.



bases (including the batting base). All the standard rules of rounders are still applicable as, basically, baseball is just an American variation of rounders, or rounders is just an English version of baseball.

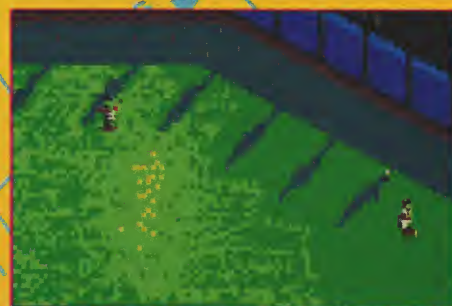
In RBI2 most of the game involves shots of the diamond, the field, and the bowlers mound. The animated sequences are absolutely beautiful, with the ball arcing right up to almost obscure your view of the diamond.

The game is quite a good simulation. You have the option to select the starting players in your team and, with none of the messing around involved with positioning people, you can dive headfirst into the main game. Fielding can be a tad slow, with the blokies crawling through the grass, but the batters don't move all that fast either anyway.

Gra... (Graphically, there's very little you can do with a game like this. Ed) Oi! (If you've ever played a cricket game, you'll know it's just like an isometric version of Lemmings. Ed) Help! I'm being obscured by Ed comments! (The fielders are slightly easier to control in RBI2, though you might have some trouble getting to grips with it first time around. Ed)



As the fielder ran towards the ball, the audience held their collective breath.



Daylight turned to dusk and the players' thoughts turned to their tea.

Can I do the sound, Linda? (The sound is all right and quite unobtrusive, it won't detract from the game though it won't add much either.

All in all, RBI2 gels together quite well. It's nice to be able to select your team, and it doesn't get too tedious as there isn't much tactical talk. It's always a plus point to have some animated sequences to look at instead of lots of boring boxes with numbers in. Ed)

Erm, Linda, (What? Ed) I was quite looking forward to reviewing this game. (But it's quite clear to everyone that you know very little, if anything, about the intricacies of the game of baseball. Ed) But I could learn...

RBI - What does it mean?

- Righteous Baseball Interaction
- Rather Blimmin' Important
- Really Blue Ink
- Rancid Banana Incense
- Render Badgers Insensible
- Respect Bad Instructions
- Romantic Bohemian Inventor

VERDICT 90%

Terminator 2

The Hit Squad ■ 061 832 6633 ■ £3.99

"I'm a cold heart breaker, fit to burn, and I'll rip your heart in two..." **SIMON FORRESTER** straps on his metal arm and grabs a piece of the action.

So it's the game of the film of the book, eh? Quite frankly, the thought of meeting that Axl Rose (Who? Not terribly with it AA reader)... out of Guns 'n' Roses (Oh yes, Guns and Roses. Jolly nice chaps, lovely ear for melody. Even less with it AA reader) in a dark alley is slightly more horrific than meeting Arnie (especially if Axl started singing Ed). Still that's by the by and, after a pointless effort to let you know how scared I am of Axl Rose, we'd better take a look at the game.

Level One - The shopping mall - Enter Arnie stage right, and the strange liquid bloke stage left. If you play this game anything like I do, it'll run as follows: Arnie kicks the other bloke. Bloke turns his hand into a spike and stabs Arnie. Arnie tries to punch him. Arnie misses. Bloke head-butts (or rather blob-butts) Arnie. Arnie kicks. Arnie kicks. Arnie kicks. Arnie kicks. Bloke melts. Bloke reforms himself. Arnie keeps kicking. Bloke eventually dies after doing various liquidy things. (Why do I get the feeling that everyone's going to write in, having followed this paragraph to the letter and then lost? Ed)

Level Two - The flood channel - Enter Arnie on a cool Harley, with John Connor draped over the back (Makes a change from a scantily clad, erm, lady. Ed), being pursued by the same rather scary liquid bloke in a pretty hefty truck. The idea



Allo! Ich bin das Terminator und I would like to know vas mein hed ist doing over there?



Ich bin das Terminator und du ist ein blob von metal. Du kannst nicht me beat.



here is to outrun the truck, whilst not smashing into tyres, sofas (well they look like sofas) and the other stuff that litters the highway. If you do, both Arnie and John lose even more energy. There are also puddles to skid about in and drink cans that, for some reason, seem to cause immense hassle. (I think they're meant to be petrol cans actually. Ed)

Later on, you get some smart puzzle bits to work out. In Level Three you have to operate on the Terminator's arm. It's one of those rearrange-the-blocks puzzles and it's fiendishly difficult. Still, everything's made a bit easier by the friendly controls. If you're kicking yourself with frustration it won't be because of the joystick. A couple of levels later, you have to do the same thing with old Termy's head. The levels kind of repeat themselves, so you get a couple of other racey levels and a couple of fighty ones. They may be quite similar ideas, but they get progressively more difficult. One thing's for sure, this is a blimmin' hard game.

Like Arnie (okay, I admit it, I can't spell his last



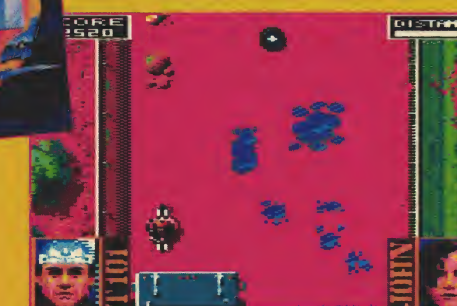
Ha! das Terminator (das ist me, ja?) ist vonce again die best. Oh, ich bin so gut!



Diss ist me bevor de surgery. I am now much more handsome, ja?



Dis ist mein vater's vater - mein grandvater. He voss ein gut man.



Your Ameikanische roads are sehr dirty. In Deutschland, alles ist clean und, how you say, neece. Ja, ist all neece.

(name), this game is immensely and well 'ard. You've seen those games where you complete them in a matter of seconds? Well, this is definitely not one of them. You will progress further every time you play, but you won't complete this on your second go. You'll definitely keep on trying and there are certain skills that you'll slowly get the gist of, and some that'll take a little longer to master. Indeed, there are a wide range of skills needed, not least puzzling out just how to fit all those blocks into Arnie's unfinished fazzog. This isn't just a fighting game, a racing game nor a puzzle game. It is in fact a combination of all the elements that have created classic games in the past. Whether this was a deliberate strategy on the part of the programmers, or whether the plot of the film simply lent itself rather easily to this format isn't clear. Whichever way round though, you'll have a lot to do.

So how does it measure up? Well, as an action game, it's got it all, or most of it at least. And it's even got those lovely puzzley bits. It's nicely presented, with some good graphics, and incidental loading screens. It's definitely worth a review, which is a good job really!

VERDICT 90%

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● **Reader calls:** We regret we have to restrict reader calls to Tuesday afternoons.

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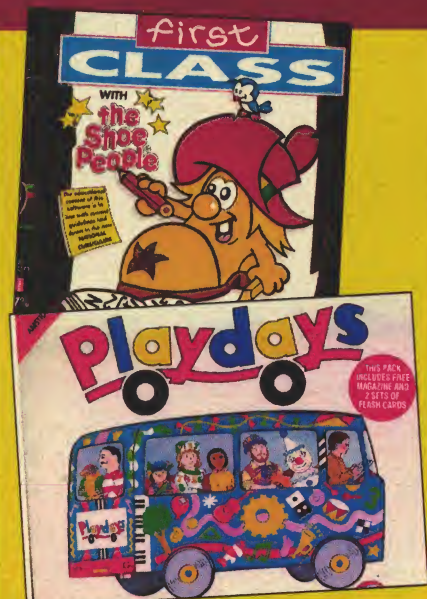
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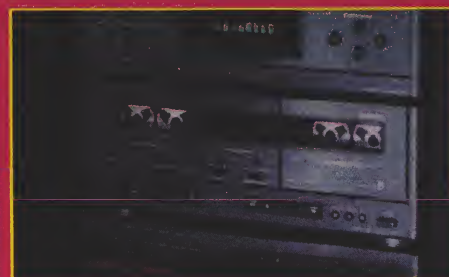
Rod used to live in a bus like that!

More Kids...

The Fun School collection, The Shoe People and Playdays crocodile march on to the CPC (and in to your child's mind).
Get some education!

More Upgrades

The next instalment of Phil Craven's series on boosting your CPC Plus to the skies. Next month 6218 Plus owners can find out how to operate that remote!



Erm, we ran out of pictures of upgrades!

Street Fighter 2

We live in eternal hope, and promise we'll review it next issue. It was delayed this month. We all cried bitterly, but that's the way it is. However, abandon not ye faith! We shall cometh in the future, with fist and foot, to bring you this long-awaited beat-'em-up.



Machine Code (again)

Simon Forrester takes you on a ramble around the innards of your CPC.

FB	CD	43	13	F3	D9	73	CB
CB	91	18	F3	D9	79	CB	D9
18	05	F3	D9	F2	CD	5F	BA
0C	A9	4F	18	78	CD	70	BA
2A	01	C0	F5	48	47	FB	E1
D6	B8	46	71	AD	BA	ED	B8
ED	B0	C9	CD	C2	BA	F3	D9
D9	ED	49	CD	59	CB	D3	CB
FB	C9	F3	D9	79	F6	0C	ED

April issue on sale March 25th

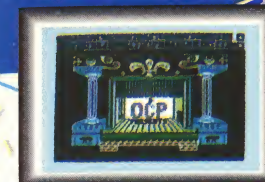
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